

SERVICE MANUAL

CPD-E210



US Model Canadian Model

Chassis No. SCC-L31A-A



D99C CHASSIS

SPECIFICATIONS

Picture tube 0.24 mm aperture grill pitch

17 inches measured diagonally

90-degree deflection

Video image area (16" maximum viewing image)

Approx. 327 X 243 mm (w/h)

(129/10 x 91/2 inches)

Resolution Horizontal: Max. 1600 dots

Vertical: Max. 1200 lines

Standard image area Approx. 312 x 234 mm (w/h)

(121/4 x 91/4 inches)

Input signal

Video Analog RGB (75 ohms typical)

0.7 Vp-p, ±5%, Positive

Sync Separate HD/VD,

TTL Polarity Free External Composite,

TTL Polarity Free (2K ohms impedance)

Deflection frequency Horizontal: 30 to 85 KHz

Vertical: 48 to 120 Hz

AC input voltage / current 100 to 120 V, 50/60 Hz, 1.7A

220 to 240V, 50/60Hz, 0.9A

Dimensions 404 x 413.5 x 419.5mm (w/h/d)

 $(15^{9/10} \times 16^{3/10} \times 16^{1/2} \text{ inches})$

Mass Approx. 20.0 kg (44 lb 2 oz.)

Plug and Play DDC/DDC2B, DDC2Bi, GTF

Design and specifications are subject to change without notice.



POWER MANAGEMENT

The power saving mode complies with the VESA Display Power Management Signaling standard. Each state of power management shall be activated by the host computer terminating the appropriate sync signals. Blanking the video must precede termination of the sync signals. The elapsed time counter shall also be controlled by the host computer. Reactivation of the monitor shall be accomplished from the host computer by re-establishing the normal sync signal.

	Power consumption mode	Screen (video)	Horizontal sync signal	Vertical sync signal	Power consumption	Recovery time	() indicator
1	Normal operation	active	yes	yes	≤ 120 W		Green
2	Standby (1st mode)	blank	no	yes	≤ 15 W	Approx. 5 sec.	Green and Orange Alternate
3	Suspend (2nd mode)	blank	yes	no	≤ 15 W	Approx. 5 sec.	Green and Orange Alternate
4	Active-off (3rd mode)	blank	no	no	≤ 3 W	Approx. 10 sec.	Orange
5	Power-off				0 W		Off

SELF DIAGNOSIS FUNCTION

When a failure occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

	Status	Area of Failure	LED Indication
1	Failure 1	HV or +B	Amber (0.5 second)/Off (0.5 second)
2	Failure 2	H Stop or V Stop	Amber (1.5 second)/Off (0.5 second)
3	Failure 3	ABL	Amber (0.5 second)/Off (1.5 second)
4	Aging/Self Test		Amber (0.5 second)/Off (0.5 second)/
			Green (0.5 second)/Off (0.5 second)

TIMING SPECIFICATION

TIMING SPECIFICA	TION							
MODE	4	2	3	4	Primary Mode	6	7	8
	0.40.1/, 400		-		5		•	_
Resolution (H x V)	640 X 480	800 X 600	832 x624	1024 X 768	1024 X 768	720 X 400	640 X 480	1280 X 1024
Dot Clock (MHz)	25.175	56.250	57.283	78.750	94.500	28.322	36.000	135.000
HORIZONTAL								
Hor. Freq. (kHz)	31.469	53.674	49.725	60.023	68.677	31.469	43.269	79.976
H-Total	31.778	18.631	20.111	16.660	14.561	31.777	23.111	12.504
H-Blanking	6.356	4.409	5.586	3.657	3.725	6.355	5.333	3.022
H-Front Porch	0.636	0.569	0.559	0.203	0.508	0.636	1.556	0.119
H-Sync.	3.813	1.138	1.117	1.219	1.016	3.813	1.556	1.067
H-Back Porch	1.907	2.702	3.910	2.235	2.201	1.907	2.222	1.837
H-Active	25.422	14.222	14.524	13.003	10.836	25.422	17.778	9.481
(µsec)								
VERTICAL								
Ver. Freq. (Hz)	59.940	85.061	74.550	75.029	84.997	70.087	85.008	75.025
V-Total	525	631	667	800	808	449	509	1066
V-Blanking	45	31	43	32	40	49	29	42
V-Front Porch	10	1	1	1	1	12	1	1
V-Sync.	2	3	3	3	3	2	3	3
V-Back Porch	33	27	39	28	36	35	25	38
V-Active	480	600	624	768	768	400	480	1024
(lines)								
SYNC.								
Int (G)	NO	NO	NO	NO	NO	NO	NO	NO
Ext (H/V)/Polarity	YES -/-	NO +/+	YES -/-	YES +/+	YES +/+	YES -/+	YES -/-	YES +/+
Ext (CS)/Polarity	NO	NO	NO	NO	NO	NO	NO	NO
Int/Non Int	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT

TIMING ODEOLEIGATION

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SAFETY CHECK-OUT

Leakage Test

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorlysoldered connections. Check the entire board surface for solder splashes and bridges.
- 2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair.
 Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- 6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampere). Leakage current can be measured by any one of three methods. 1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions. 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job. 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit"

The AC leakage from any exposed metal part to earth ground

WARNING!!

range are suitable. (See Figure A)

indication is 0.75 V, so analog meters must have an accurate

low voltage scale. The Simpson's 250 and Sanwa SH-63Trd

are examples of passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2V AC

NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle ONTHE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND INTHE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOWTHESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

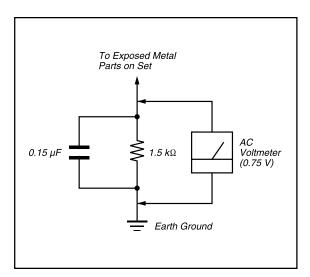


Figure A

AVERTISSEMENT!!

NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVEE.

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE △ SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY. LES REGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRESENT MANUEL. SUIVRE CES PROCEDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONTIONNEMENT SUSPECTE.

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Identifying parts and controls

See the pages in parentheses for further details.

Front

SECTION 1 GENERAL

Manual. The page numbers shown reflect those of the Operating The following are partial abstracts from the Operating Instruction

nstruction Manual.

Warning on power connections

Precautions

Use the supplied power cord. If you use a different power cord, be sure that it is compatible with your local power supply.
 For the customers in the U.S.A.
 If you do not use the appropriate cord, this monitor will not conform to mandatory FCC standards.

Example of plug types





- after turning off the power to allow the static electricity on the screen's surface to discharge. Before disconnecting the power cord, wait at least 30 seconds for 100 to 120 V AC
- on magnetic tapes and disks placed near the monitor. Be sure to keep magnetic recording equipment, tapes, and disks away from the monitor. magnetic field around the screen which may affect data stored After the power is turned on, the screen is demagnetized (degaussed) for about 5 seconds. This generates a strong

The equipment should be installed near an easily accessible

Installation

Do not install the monitor in the following places:

- on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies, etc.) that may block the ventilation holes
 - near heat sources such as radiators or air ducts, or in a place

 - subject to direct sunlight in a place subject to severe temperature changes in a place subject to mechanical vibration or shock on an unstable surface
- near equipment which generates magnetism, such as a
- transformer or high voltage power lines near or on an electrically charged metal surface

Maintenance

- Clean the screen with a soft cloth. If you use a glass cleaning liquid, do not use any type of cleaner containing an anti-static solution or similar additive as this may scratch the screen's coating.
- Do not rub, touch, or tap the surface of the screen with sharp or abrasive items such as a ballpoint pen or screwdriver. This type
- of contact may result in a scratched picture tube.

 Clean the cabinet, parel and corroris with a soft cebn lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent, such as alcohol or

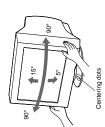
Transportation

When you transport this monitor for repair or shipment, use the original carton and packing materials.

Use of the tilt-swivel

This monitor can be adjusted within the angles shown below. To find the center of the monitor's turning addias, align the center of the monitor's streen with the centering dots on the stand. Hold the monitor at the bottom with both hands when you turn it holds the monitor at the bottom with both hands when you turn it horizontally or vertically, Be careful not to pinel, your fingers at the back of the monitor up vertically.

Rear



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4 AC IN connector (page 6)

This connector provides AC power to the monitor.

This connector inputs RGB video signals (0.700 Vp-p, positive) and sync signals. 5 Video input connector (HD15) (page 6)

The control button is used to display the menu and make adjustments to the monitor, including brightness and contrast

adjustments.

Control button (page 9)

This button resets the adjustments to the factory settings.

1 RESET button (page 12)

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This button turns the monitor on and off. The power indicator lights up in green when the monitor is turned on, and either flashes in green and orange, or lights up in orange when the

monitor is in power saving mode.

 $\boxed{3} \circlearrowleft$ (power) switch and indicator (pages 7, 13, 16)

Pin No.	Signal
1	Red
2	Green
	(Sync on Green)
3	Blue
4	ID (Ground)
5	DDC Ground*
9	Red Ground
7	Green Ground
8	Blue Ground
6	1
10	Ground
11	ID (Ground)
12	Bi-Directional Data (SDA)*
13	H. Sync
14	V. Sync
15	Data Clock (SCL)*

* DDC (Display Data Channel) is a standard of VESA.

Setup

Before using your monitor, check that the following accessories are included in your carton:

- Power cord (1)
- Windows Monitor Information Disk (1)
- · Notes on cleaning the screen's surface (1) · Warranty card (1)

 - · Information sheet for Macintosh users (1) This instruction manual (1)

Step 1: Connect your monitor to

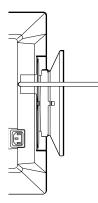
Turn off the monitor and computer before connecting.

your computer

Do not touch the pins of the video cable connector as this might bend the Note

Connecting to an IBM PC/AT or compatible

computer

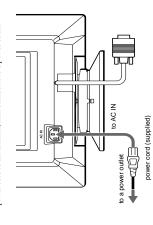


to video output

Step 2: Connect the power cord Macintosh or computer

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With the monitor and computer switched off, first connect the power cord to the monitor, then connect it to a power outlet.



IBM PC/AT or compatible computer

Step 3: Turn on the monitor and computer

■ Connecting to a Macintosh or compatible

computer

You will need a Macintosh adapter (not supplied)

First turn on the monitor, then turn on the computer.



If necessary, use the monitor's controls to adjust the picture. The installation of your monitor is complete.

If no picture appears on your screen

- Check that the monitor is correctly connected to the computer.
 If NO INPUT SIGNAL appears on the screen, confirm that the video signal cable is properly connected and all plugs are firmly
 - · If MONITOR IS IN POWER SAVE MODE appeared on the seated in their sockets.

Macintosh adapter (not supplied)

monitor. Then adjust the computer's graphic board so that the horizontal frequency is between $30-85~{\rm kHz}$, and the vertical frequency is between $48-120~{\rm Hz}$. screen, try pressing any key on the computer keyboard.

• If you are replacing an old monitor with this model and OUT OF SCAN RANGE appears on the screen, reconnect the old

For more information about the on-screen messages, see "Trouble symptoms and remedies" on page 14.

For customers using Windows 95/98

information file from the supplied Windows Monitor Information Disk

onto your PC.

This monitor complies with the "VESA DDC" Plug & Play standard. If your PC organises south the "VESA DDC", select "Plug & Play Monitor (VESA DDC)" or this monitor's model name as the monitor type in the "Control Panel" of Windows 95:98. If your PC graphics board has difficulty communicating with this monitor, load the Windows Monitor Information Disk and select this monitor, smodel name as the monitor type.

For customers using Windows NT4.0 Monitor setup in Windows 95.98 and Monitor setup in Windows NT4.0 is different from Windows 95.98 and does not involve the selection of monitor type. Refer to the Windows NT4.0 instruction manual for further details on adjusting the resolution, refresh rate, and number of colors.

Adjusting the monitor's resolution and color number

Adjust the monitor's resolution and color number by referring to your computer's instruction manual. The color number may vary according to your computer or video board. The color palette setting and the actual number of colors are as follows:

High Color (16 bit) → 65,536 colors
 Thue Color (24 bit) → about 16.77 million colors
 In true color mode (24 bit), speed may be slower.

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Selecting the on-screen menu language (LANG)

English, French, German, Spanish, Italian, Dutch, Swedish, Russian and Japanese versions of the on-screen menus are available. The default setting is English.

1 Press the center of the control button. See page 9 for more information on using the control button.





Move the control button to highlight 🖾 LANG and press the center of the control button again.

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3 Move the control button ↓/↑ to select a language

- FRANÇAIS: French ENGLISH
- DEUTSCH: German
 ESPAÑOL: Spanish
 ITALIANO: Italian
- NEDERLANDS: Dutch SVENSKA: Swedish
 - PYCCKNЙ: Russian
 - 日本語: Japanese

Press the center of the control button once to return to the main MENU, and twice to return to normal viewing. If no buttons are pressed, the menu closes automatically after about 30 seconds. To close the menu

To reset to English
Press the RESET button while the LANGUAGE menu is displayed on the screen.

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This setting is stored in memory for the current input signal.

1 Press the center of the control button.

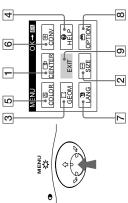
The main MENU appears on the screen

Customizing Your Monitor

You can make numerous adjustments to your monitor using the

Navigating the menu

Press the center of the control button to display the main MENU on your screen. See page 9 for more information on using the control button.



Use the control button to select one of the following menus.

SIZE/CENTER

1 CENTER (page 9)
Selects the CENTER menu to adjust the picture's centering, size or SIZE/CENTER **9**⊕**0**00 Selects the SIZE menu to adjust the picture's size, centering or zoom.

2 SIZE (page 9)

The horizontal and vertical frequencies of the current input signal are displayed in the main MENU. If the signal matches one of this monitor's factory preset modes, the resolution is also displayed.

Displaying the current input signal

26

Select EXIT to close the menu

9 EXIT

26 E 3 GEOM (page 10) Select the GEOM menu to adjust the

LANG SIZE OPTION

68.7kHz/85Hz 1024×768)

the resolution -of the current input signal

GEOM EXIT HELP

COLOR CENTER CONV

2 0

00000

picture's rotation and shape.

the horizontal and vertical frequencies of the current input signal

RETURN TO MAIN MENU FECOMMENDED RESOLUTION FLICKE THIN HORIZONTAL LINE DISTORTED SHAPE OUT OF FOCUS DISCOLORATION 4 HELP (page 12)
Select the HELP menu to
display helpful hints and
information about this

the picture's color temperature. You can use this to match the monitor's Select the COLOR menu to adjust 5 COLOR (page 10)

colors to a printed picture's colors.

6 CONV (page 10) Select the CONV menu to adjust the picture's horizontal and vertical convergence.



Select LANG to choose the on-screen menu's language. 7 LANG (page 7)

LANGUAGE FRANÇAIS

OPTION (page 11)
 Select OPTION to adjust the

NO ⊅@@@**&**

 adjusting the moire cancellation monitor's options. The options

level
• changing the on-screen menu

· locking the controls

position

· degaussing the screen

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Adjust the menu. Move the control button left (◆) or right (→) to make the adjustment.

buttons are pressed, the menu closes automatically after about main MENU, and twice to return to normal viewing. If no Press the center of the control button once to return to the

■ Resetting the adjustments

RESET

This setting is stored in memory for the current input signal.

Press the center of the control button.

The main MENU appears on the screen.

Adjusting the size of the picture

(SIZE)

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■ Using the control button

Display the main MENU.

Press the center of the control button to display the main MENU on your screen.

Brightness and contrast adjustments are made using a separate

Adjusting the brightness and

contrast

These settings are stored in memory for all input signals.

BRIGHTNESS/CONTRAST menu.

1 Move the control button in any direction.
The BRIGHTNESS/CONTRAST menu appears on the screen.

BR IGHTNESS/CONTRAST

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Select the menu you want to adjust. Highlight the desired menu by moving the control button towards the rear to go up (Φ) , towards the front to go down (♣), and left (♠) or right (♣) to move sideways.

Move the control button ♣/♠ to adjust the brightness (♡), and ←/➡ to adjust the contrast

The menu automatically disappears after about 3 seconds.

Adjusting the centering of the

picture (CENTER)

₩ ₩ ₩ FRONT

₩ Ç

REAR

₩ ₩

First move the control button ♣/₱ to select ☐ for horizontal adjustment, or ☐ for vertical adjustment. Then move the control button ←/→ to adjust the

Move the control button to highlight TB CENTER and press the center of the control button again. The SIZE/CENTER menu appears on the screen.

Close the menu.



Press the RESET button. See page 12 for more information on resetting the adjustments

adjust the size.

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Move the control button to highlight ➡ SIZE and press the center of the control button again.

The SIZE/CENTER menu appears on the screen.

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Enlarging or reducing the picture (XOOM)

This setting is stored in memory for the current input signal.

- Press the center of the control button. The main MENU appears on the screen.
- Move the control button to highlight → SIZE or → CENTER and press the center of the control The SIZE/CENTER menu appears on the screen. button again.
- Move the control button ♦/♠ to select ເ (zoom), and move ←//→ to enlarge or reduce the picture.

- Adjustment stops when either the horizontal or vertical size reaches its
- The horizontal adjustment value is not displayed in the menu. maximum or minimum value

Adjusting the shape of the picture (GEOM)

The GEOM settings allow you to adjust the rotation and shape of

The (rotation) setting is stored in memory for all input signals. All other settings are stored in memory for the current input

Press the center of the control button.

The main MENU appears on the screen.

- Move the control button to highlight \square GEOM and press the center of the control button again. The GEOMETRY menu appears on the screen.
- First move the control button ♦/♠ to select the desired adjustment item. Then move the control button ←/→ to make the adjustment.

То	rotate the picture	expand or contract the picture sides	shift the picture sides to the left or right	adjust the picture width at the top of the screen	shift the picture to the left or right at the top of the
Select	0		Ω		

Adjusting the color of the picture (COLOR)

The COLOR settings allow you to adjust the picture's color temperature by changing the color level of the white color field. Colors appear reddish if the temperature is low, and bluish if the temperature is high. This adjustment is useful for matching the monitor's colors to a printed picture's colors. This setting is stored in memory for all input signals.

- 1 Press the center of the control button. The main MENU appears on the screen.
- Move the control button to highlight ☑ COLOR and press the center of the control button again. The COLOR menu appears on the screen.
- Move the control button ↓/↑ to select a color

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The preset color temperatures are 5000K and 9300K. Since the default setting is 9300K, the whites will change from a bluish hue to a reddish hue as the temperature is lowered to 5000K.

You can select your own color temperature between 9300K If necessary, fine tune the color temperature.

4

and 5000K. First move the control button \checkmark/\P to select \blacksquare . Then move the control button ←/→ to adjust the color temperature.



Adjusting the convergence (CONV)

The CONV settings allow you to adjust the quality of the picture by controlling the convergence. The convergence refers to the alignment of the red, green, and blue color signals. If you see red or blue shadows around letters or lines, adjust the These settings are stored in memory for all input signals

- Press the center of the control button. The main MENU appears on the screen.
- Move the control button to highlight \circledast CONV and press the center of the control button again. The CONVERGENCE menu appears on the screen.
- First move the control button ↓/↑ to select ⊕ for horizontal adjustment, or ♣ for vertical adjustment. Then move the control button ←/→ to adjust the convergence.

Additional settings (OPTION)

You can manually degauss (demagnetize) the monitor, adjust the moire cancellation level, change the menu position, and lock the

screen.

To change the menu's on-screen position, first move the control button ♣/♠ to select □ (OSD H POSITION) for horizontal adjustment, or □ (OSD V POSITION) for vertical adjustment. Then move the control button

←/→ to shift the on-screen menu.

Locking the controls

Change the menu's position if it is blocking an image on the

Changing the menu's position

- Press the center of the control button. The main MENU appears on the screen.
- Move the control button to highlight \rightleftharpoons OPTION and press the center of the control button again. The OPTION menu appears on the screen.
- Move the control button **↓/↑** to select the desired Adjust the selected item according to the following adjustment item.

To protect adjustment data by locking the controls, first move the control button +/4 to select $O_{-+}(CONTROL LOCK)$. Then move the control button -- to select $O_{--}(CONTROL LOCK)$ only the \bigcirc govers) switch, EXIT; and \bigcirc (CONTROL LOCK) of the \bigcirc OFTION menu will operate. If any other items are

The monitor is automatically demagnetized (degaussed) when the Degaussing the screen

Repeat the procedure above and set Om (CONTROL LOCK) to OFF.

To cancel the control lock

selected, the On mark appears on the screen

control button 4/1 to select ⊕ (DEGAUSS). Then move To manually degauss the monitor, first move the

The screen is degaussed for about 5 seconds. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the the control button

Adjusting the moire*

If elliptical or wavy patterns appear on the screen, adjust the

To adjust the amount of moire cancellation, first move the control button ♣/♠ to select ∰ (MOIRE ADJUST). Then move the control button ←/→ until the moire effect is at a minimum. Moire is a type of natural interference which produces soft, wavy lines on your screen. It may appear due to interference between the pattern of the picture on the screen and the phosphor pitch pattern of the



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Helpful hints and information (HELP)

monitor. If your monitor is displaying symptoms that match those The HELP menu contains helpful hints and information about this resolve the problem. If the symptoms do not match those listed in listed in the HELP menu, follow the on-screen instructions to the HELP menu or if the problem persists, see "Trouble symptoms and remedies" on page 14.

1 Press the center of the control button. The main MENU appears on the screen. Move the control button to highlight @ HELP and press the center of the control button again. The following HELP menu appears on the screen.



Move the control button ↓/↑ to select a HELP menu item and press the center of the control button

the screen. An explanation of each menuitem is given below. Instructions or information to resolve the problem appears on

appears too large for the screen, adjust the resolution to the figures shown in the menu using your computer. If the input signal matches one of this monitor's factory preset modes, the resolution If the picture does not fill the screen to the edges or if the picture RECOMMENDED RESOLUTION



FLICKER

If the picture is flickering, adjust the refresh rate to figures shown factory preset modes, the refresh rate of the current input signal is in the menu. If the input signal matches one of this monitor's

SET REFRESH RATE TO 75Hz OR 85Hz USING PC. CURRENT SETTING IS 60Hz.

THIN HORIZONTAL LINE

The lines that appear on your screen are damper wires. See page 13 for more information about the damper wires.

DISTORTED SHAPE

If the shape of the picture on the screen seems distorted, try

OUT OF FOCUS

The picture may seem to be out of focus when the red and blue color signals are not aligned properly, causing red or blue shadows to appear around letters and lines. Try adjusting the picture's sconvegence to make the shadows disappear. Move the control button → to jump directly to the CONVERGENCE menu. When the CONVERGNECE menu is displayed, the contrast, brightness and moire adjustment settings are automatically reset for all input signals.

DISCOLORATION

checked the cables, try degaussing (demagnetizing) the screen manually. Move the control button $\blacksquare \Psi$ to jump directly to the OPTION menu, then select Θ (DEGAUSS). If the picture's color appears abnormal in certain areas of the screen, first check for any loose signal cables. After you have

Resetting the adjustments

This monitor has the following three reset methods. Use the RESET button to reset the adjustments.

0

RESET

Resetting a single adjustment item

Use the control button to select the adjustment item you want to reset, and press the RESET button.

Resetting all of the adjustment data for the current input signal

Press the RESET button when no menu is displayed on the screen. Note that the following items are not reset by this method:

- · on-screen menu position (page 11) on-screen menu language (page 7)
 - control lock (page 11)

Resetting all of the adjustment data for all input

Press and hold the RESET button for more than two seconds.

signals

The RESET button does not function when $\mathbf{O}_{\mathbf{T}}$ (CONTROL LOCK) is set to ON.

Technical Features

Preset and user modes

matches the signal to one of the factory preset modes stored in the monitor's memory to provide a high quality picture at the center of the screen. (See Appendix for a list of the factory preset modes.) For input signals that do not match one of the factory preset modes, the digital Multiscan technology of this monitor ensures that a clear picture appears on the screen for any timing in the monitor's frequency range (horizontal: 30 - 85 kHz, vertical: 48 - 120 Hz). If the picture is adjusted, the adjustment data is stored as a user mode and automatically recalled whenever the same input signal When the monitor receives an input signal, it automatically is received.

Note for Windows users

For Windows users, check your video board manual or the utility program which comes with your graphic board and select the highest available refresh rate to maximize monitor performance.

Power saving function

This monitor meets the power-saving guidelines set by VESA, ENERGY STAR, and NUTEK. If the monitor is connected to a computer or video graphics board that is DPMS (Display Power Management Signaling) compliant, the monitor will automatically reduce power consumption in three stages as shown below.

ower mode	Power mode Power consumption (b) (power) indicator	⊕ (power) indicator
normal	< 120 W	green
standby	< 15 W	green and orange alternate
2 suspend (sleep)*	≤ 15 W	green and orange alternate
active off** deep sleep)*	< 3 W	orange
House off	A U	off.

"Sleep" and "deep sleep" are power saving modes defined by the Environmental Protection Agency.

** When your computer is in a power saving mode, MONITOR IS IN POWER SAVE MODE appears on the screen if you press any button on the monitor. After a few seconds, the monitor enters the power saving mode again.

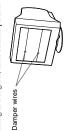
**** Power consumption of 0 W is acheivable by disconnecting the power cord from the power outlet.

Froubleshooting

Before contacting technical support, refer to this section.

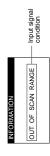
If thin lines appear on your screen damper wires)

from the damper wires used to stabilize the aperture grille and are The lines you are experiencing on your screen are normal for the Trinitron monitor and are not a malfunction. These are shadows Frinitron picture tube unique by allowing more light to reach the white). The aperture grille is the essential element that makes a most noticeable when the screen's background is light (usually screen, resulting in a brighter, more detailed picture.



On-screen messages

If no picture appears on the screen, one of the following messages appears on the screen. To solve the problem, see "Trouble symptoms and remedies" on page 14.



The input signal condition **OUT OF SCAN RANGE**

indicates that the input signal is not supported by the monitor's specifications.

NO INPUT SIGNAL

indicates that no signal is input. MONITOR IS IN POWER SAVE MODE

saving mode and you press any one of the buttons on the monitor. indicates that the computer is in power saving mode. This message is displayed only when your computer is in a power

Trouble symptoms and remedies

If the problem is caused by the connected computer or other equipment, please refer to the connected equipment's instruction manual. Use the self-diagnosis function (page 16) if the following recommendations do not resolve the problem.

Symptom	Check these items
No picture	
If the \diamondsuit (power) indicator is not lit	• Check that the power cord is properly connected. • Check that the Θ (power) switch is in the "on" position.
If the NO INPUT SIGNAL message appears on the screen, or if the Θ (power) indicator is either orange or	 Check that the video signal cable is properly connected and all plugs are firmly seated in their sockets (page 6). Check that the HD15 video input connector's pins are not bent or pushed in.
alternating between green and orange	■Problems caused by the connected computer or other equipment • Check that the computer's power is 'on.' • Check that the graphic board is completely seated in the proper bus slot.
If the MONITOR IS IN POWER SAVE MODE message appeared on the screen, or if the \mathcal{O} (power) indicator is either orange or alternating between green and orange	■Problems caused by the connected computer or other equipment • The computer is in power saving mode. Try pressing any key on the computer keyboard. • Check that the computer's power is "on." • Check that the graphic board is completely seated in the proper bus slot.
If the OUT OF SCAN RANGE message appears on the screen	■Problems caused by the connected computer or other equipment • Check that the video frequency range is within that specified for the monitor. If you replaced an old monitor with this monitor, reconnect the old monitor and adjust the frequency range to the following. Horizonta: 30 – 85 kHz Vertical: 48 – 120 Hz
If no message is displayed and the () (power) indicator is green or flashing orange	Use the Self-diagnosis function (page 16).
If using Windows 95/98	 If you replaced an old monitor with this monitor, reconnect the old monitor and do the following. Install the Windows Monitor Information Disk (page 7) and select this monitor ("CPD-E200") from among the Sony monitors in the Windows 95/98 monitor selection screen.
If using a Macintosh system	 Check that the Macintosh adapter (not supplied) and the video signal cable are properly connected (page 6).
Picture flickers, bounces, osciliates, or is scrambled	 Isolate and eliminate any potential sources of electric or magnetic fields such as other monitors, laser printers, electric fans, fluorescent lighting, or televisions. Move the monitor away from power lines or place a magnetic shield near the monitor. Try plugging the monitor into a different AC outlet, preferably on a different circuit. Try turning the monitor 90° to the left or right.
	■Problems caused by the connected computer or other equipment • Check your graphics board manual for the proper monitor setting. • Check your graphics board manual for the proper monitor setting. • Confirm that the graphics mode (VESA, Macintosh (6" Color, etc.) and the frequency of the input signal are supported by this monitor (Appendix). Even if the frequency is within the proper range, some video boards may have a sync pulse that is too narrow for the monitor to sync correctly. • Adjust the computer's refresh rate (vertical frequency) to obtain the best possible picture.
Picture is fuzzy	 Adjust the brightness and contrast (page 9). Degauss the monitor* (page 11). Select MOIRE ADJUST and adjust the moire cancellation effect (page 11).

Eliminate	Eliminate the use of video cable extensions and/or video switch boxes.
 Check the 	Check that all plugs are firmly seated in their sockets.
Adjust the screen to 1	Adjust the size (page 9) or centering (page 9). Note that some video modes do not fill the screen to the edges.
Adjust the	Adjust the geometry (page 10).
Select MC	 Select MOIRE ADJUST and adjust the moire cancellation effect (page 11).
■ Problem Change ye	■Problems caused by the connected computer or other equipment • Change your desktop pattern.
Degauss t such as a: may lose i	 Degauss the monitor* (page 11). If you place equipment that generates a magnetic field, such as a speaker, near the monitor, or if you change the direction the monitor faces, color may lose uniformity.
Adjust the	Adjust the color temperature (page 10).
Adjust the	Adjust the convergence (page 10).
If the con	If the control lock is set to ON, set it to OFF (page 11).
This is the automatic	This is the sound of the auto-degauss cycle. When the power is turned on, the monitor is automatically degaussed for five seconds.
minimum interv	minimum interval of 20 minutes for the best result. A humming noise may be heard, but this is not a

Letters and lines show red or blue shadows at the edges

White does not look white

Color is not uniform

Monitor buttons do not operate

A hum is heard right after the power is turned on

Wavy or elliptical pattern (moire) is visible

Picture is not centered or sized properly Edges of the image are curved

Picture is ghosting

If the problem persists, call your authorized Sony dealer and give the following information.

• Model name: CPD-E200

• Serial number

• Name and specifications of your computer and graphics board. Displaying this monitor's name, serial number,

If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result. A humi

While the monitor is receiving a video signal, press and hold the center of the control button for more than five seconds to display this monitor's information box.

₩ ₩ ₩

and date of manufacture.

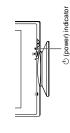
MODEL:CPD-E200 SER NO:1234567 MANUFACTURED:1999-52

15

4

Self-diagnosis function

This monitor is equipped with a self-diagnosis function. If there is a problem with your monitor or computer, the screen will go blank and the O (power) indicator will either light up green or flash orange. If the O (power) indicator is lit in orange, the computer is in power saving mode. Try pressing any key on the keyboard.



If the \circlearrowleft (power) indicator is green

- 1 Disconnect the video input cable or turn off the connected computer.
- Press the $\dot{\mathbb{O}}$ (power) button twice to turn the monitor off and then on.
- Move the control button → for 2 seconds before the monitor enters power saving mode. က



If all four color bars appear (white, red, green, blue), the monitor is working properly. Reconnect the video input cable and check the condition of your computer.

If the color bars do not appear, there is a potential monitor failure. Inform your authorized Sony dealer of the monitor's condition.

If the \circlearrowleft (power) indicator is flashing orange

Press the \circlearrowleft (power) button twice to turn the monitor off

and then on. If the \circlearrowleft (power) indicator lights up green, the monitor is working

If the Θ (power) indicator is still flashing, there is a potential monitor failure. Count the number of seconds between orange flashes of the Θ (power) indicator and inform your authorized. Sony dealer of the monitor's condition. Be sure to note the model name and serial number of your monitor. Also note the make and model of your computer and video board.

Specifications

CRT	0.24 mm aperture grille pitch (center)
	17 inches measured diagonally
	90-degree deflection
	FD Trinitron
Viewable image size	Approx. $327 \times 243 \text{ mm (w/h)}$
	$(14^{-3}/4 \times 9^{-5}/8 \text{ inches})$
	16.0" viewing image
Resolution	
Maximum	Horizontal: 1600 dots
	Vertical: 1200 lines
Recommended	Horizontal: 1024 dots
	Vertical: 768 lines
Standard image area	Approx. $312 \times 234 \text{ mm (w/h)}$
	$(12^{3/8} \times 9^{1/4} \text{ inches})$
Deflection frequency*	Horizontal: 30 to 85 kHz
	Vertical: 48 to 120 Hz
AC input voltage/current	100 to 240 V, 50 - 60 Hz, Max. 1.7 A
Power consumption	120 W
Dimensions	Approx. 404 × 413.5 × 419.5 mm (w/h/
	d) $(16 \times 16^{3/8} \times 16^{5/8} \text{ inches})$
Mass	Approx. 20 kg (44 lb 1 oz)
Plug and Play	DDC1/DDC2B/DDC2Bi
Supplied accessories	See page 6

Recommended horizontal and vertical timing condition

+ Porizontal syne width should be more than 1.0 peec.

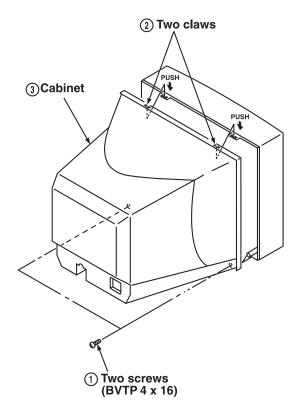
Horizontal blanking width should be more than 3.0 peec.

Vertical blanking width should be more than 500 peec.

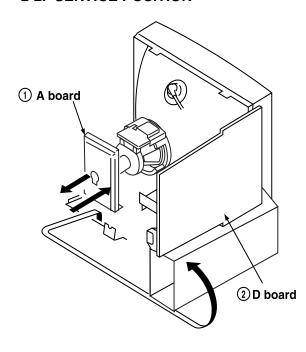
Design and specifications are subject to change without notice.

SECTION 2 DISASSEMBLY

2-1. CABINET REMOVAL



2-2. SERVICE POSITION

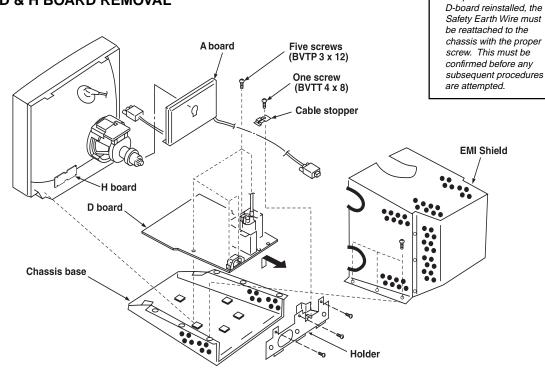


1 When the D board is

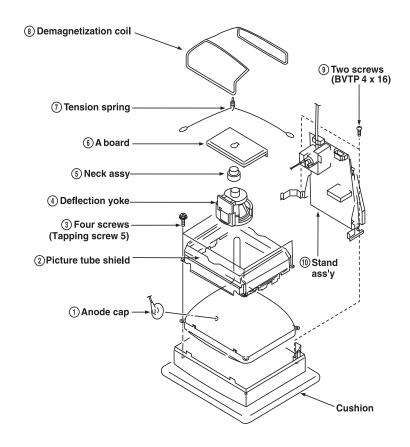
placed in service

position, the Safety Earth Wire (green and yellow wire) is disconnected. 2 After service is completed and the

2-3. A, D & H BOARD REMOVAL



2-4. PICTURE TUBE REMOVAL

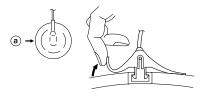


ANODE CAP REMOVAL

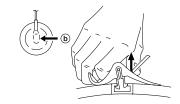
WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT **before** attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

NOTE: After removing the anode, short circuit the anode of the picture tube and the anode cap to either the metal chassis, CRT shield, or carbon painted on the CRT.

REMOVAL PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by arrow ②.



② Use your thumb to pull the rubber cap firmly in the direction indicated by arrow ⓑ.



③ When one side of the rubber cap separates from the anode button, the anode cap can be removed by turning the rubber cap and pulling it in the direction of arrow ⓒ.

HOW TO HANDLE AN ANODE CAP

- ① Do not use sharp objects which may cause damage to the surface of the anode cap.
- ② Do not squeeze the rubber covering too hard to avoid damaging the anode cap. A material fitting called a shatter-hook terminal is built into the rubber.
- ③ Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.





SECTION 3 SAFETY RELATED ADJUSTMENTS

When replacing parts shown in the table below, the following operational checks must be performed as a safety precaution against X-ray emissions from the unit.

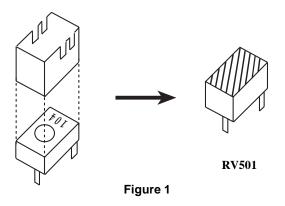
	Part Replaced (►)
HV ADJ	RV501

		Part Replaced ()
HV Regulator Circuit	D board	T501, IC501, RV501, R540, R541, R542, R544, R564, R567, R568, C532, C534, C539, C553, C554, C555, C556, C558, C561
HV HOLD DOWN Circuit	D board	T501, R510, R543, R547, R549, R552, R595, D515, D517, C540, C542, C544, IC607, IC901
Beam Current Protector Circuit	D board	T501, R545, R546, R548, R550, R596, R934, C535, C541, IC605, IC607, IC901

Allow the unit to warm up for one minute prior to checking the following conditions:

a) HV Regulator Check

- 1) Input white cross hatch signal. (fH = 80 kHz)
- 2) CONT maximum and BRT center
- 3) Cut off Screen VR (G2).
- 4) Input voltage: 120 ± 2 VAC.
- 5) Confirm that the voltage is within the voltage range shown below.
 - Standard voltage: 26.9 KV ± 0.4 KV
- 6) When replacing components identified by , make sure to recheck the High Voltage.
- 7) Verify the High Voltage as shown above ($26.9\,\mathrm{KV}\pm0.4\,\mathrm{KV}$) is within specification. If not, adjust RV501 on D board.



8) After adjusting the High Voltage within specification, put the RV cover on RV501 as shown in Figure 1 and apply sufficient amount of RTV around RV501.

b) HV Protector Circuit Check

- 1) Confirm that the voltage between cathode of D517 and GND is more than 27.5 VDC.
- 2) Using an external DC Power supply, apply the voltage shown below between cathode of D517 on "D" and GND, and confirm that the HV Hold-Down circuit works. (Raster disappears) Apply DC Voltage: Less than 35.5 VDC.

Check Condition

• Input voltage: 100-120 VAC

Input signal: (fH =80 kHz), White Cross Hatch
 Controls: CONT (max) & BRT (center)

c) Beam Protector Check (Software logic)

1) Using an external current source, apply < 1.55mA between pin (II) of FBT (T501) and GND, and confirm that the raster fades out.

Check Condition

• Input voltage: 100-120 VAC

Input signal: (fH = 80 kHz), White Cross Hatch
 Controls: CONT (max) & BRT (center)

d) B+ Voltage Check

- 1) Input white cross hatch (fH = 80 kHz) signal.
- 2) CONT (max) & BRT (center).
- 3) Input voltage: 100-120 VAC.

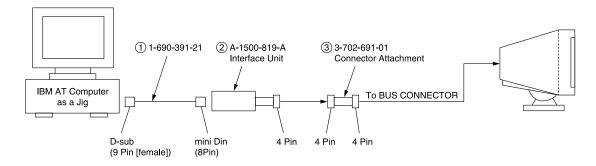
Note: Use NF power supply or make sure that distortion factor is 3% or less.

4) Confirm that the voltage is within the voltage range shown below.

Standard voltage: $180 \pm 3.0 \text{ VDC}$

SECTION 4 ADJUSTMENTS

Connect the communication cable of the connector located on the D board on the monitor. Run the service software and then follow the instructions.



*The parts above $((1) \sim (3))$ are necessary for DAS adjustment.

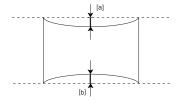
* Allow a 30 minute warm-up period prior to making the following adjustments:

4-1. LANDING ROUGH ADJUSTMENT

- 1. Display the all white pattern.
- 2. Adjust the contrast to maximum value.
- 3. Display the plain green pattern.
- Slide the DY back and roughly adjust the plain green pattern with the purity magnet so that it is centered on the screen.
- 5. Moving the DY forward, adjust so that an entire screen becomes pure green.
- 6. Adjust the tilt of DY and tighten lightly with a clamp.

4-2. LANDING FINE ADJUSTMENT

- 1. Place the monitor in the Helmholtz coil.
- 2. Set TLH plate to zero position.
- 3. Display plain green pattern.
- Degauss CRT face and iron parts with degauss equipment or hand-degausser.
- 5. Perform auto degauss.
- 6. Attach a wobbling coil to the specified position of CRT neck.
- 7. Put the sensor of landing checker to CRT face.
- 8. Adjust purity, DY position and DY tilt.
- 9. Tighten DY screw.
- 10. Perform auto degauss.
- 11. Adjust top and bottom pin by pitching DY up and down with two wedges so that [a] is equal to [b].



12. Adjust V. Key (=H. Trapezoid) with H-Trp VR so that [a] is equal to [b].

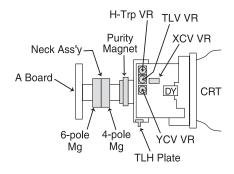


- 13. If the corner landing is out of specification, use a disk magnet for the landing correction.
- 14. If disk magnets were used, perform an auto degauss.
- 15. Remove the wobbling coil and sensor.
- 16. Fix the purity magnet on DY with white paint.

4-3. CONVERGENCE ROUGH ADJUSTMENT

- 1. Enter the white crosshatch signal.
- 2. Roughly adjust the horizontal (H.STAT) and vertical (V.STAT) convergence at four-pole magnet.
- 3. Roughly adjust HMC and VMC at six-pole magnet.

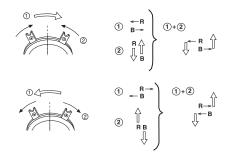
4-4. CONVERGENCE AND V. KEY (H. TRP) FINE ADJUSTMENT



1. Change "CONV_OFF_NDX" to "7".

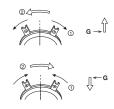
- Display crosshatch pattern with red and blue lines and black field.
- 3. Adjust H.STAT and V.STAT with 4 pole magnet. Use 4 pole magnet, not "HSTAT" and "VSTAT".

4-Pole Magnet



- 4. Display crosshatch pattern with white lines and black field.
- 5. Adjust HMC and VMC with 6-pole magnet.

6-Pole Magnet



- Display crosshatch pattern with red and blue lines and black field.
- 7. If necessary, repeat steps 3-6.
- 8. Change "CONV_OFF_NDX" to "3".
- 9. Adjust H.TILT with TLH plate.

TLH Movement



10. Adjust XCV with XCV VR.

XCV Movement



11. Adjust YCH with YCH VR.

YCH Movement



12. Adjust V.TILT with TLV VR.

TLV Movement

- 13. If necessary, repeat steps 1-12 to make the optimum condition for the entire screen.
- 14. Fix 4-pole magnet, 6-pole magnet, XCV VR and TLH Plate with white paint.

Zero Position Neck Ass'y

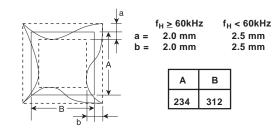
Purity 4-Pole Mg 6-Pole Mg





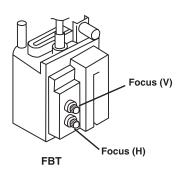


4-5. VERTICAL AND HORIZONTAL POSITION AND SIZE SPECIFICATION



4-6. FOCUS ADJUSTMENT

Adjust focus (V) and focus (H) for optimum focus.

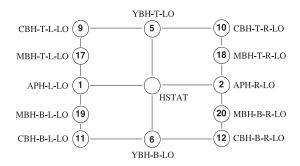


4-7. DIGITAL CONVERGENCE ADJUSTMENT

Convergence (Low) Mode

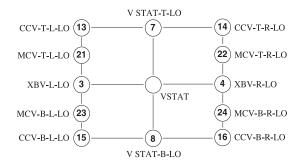
1. Adjust the H.STAT and V.STAT with "HSTAT" and "VSTAT".

A. Horizontal Convergence



Adjust each misconvergence point in sequence.

B. Vertical Convergence



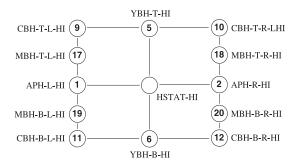
Adjust each misconvergence point in sequence.

2. Repeat the procedure of A and B so that the convergence of the entire screen is within the specification.

Convergence (High) Mode

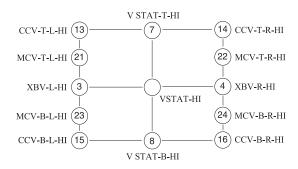
1. Adjust the H.STAT and V.STAT with "HSTAT-HI" and "VSTAT-HI".

A. Horizontal Convergence



Adjust each misconvergence point in sequence.

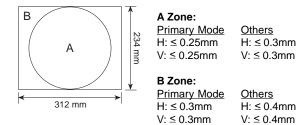
B. Vertical Convergence



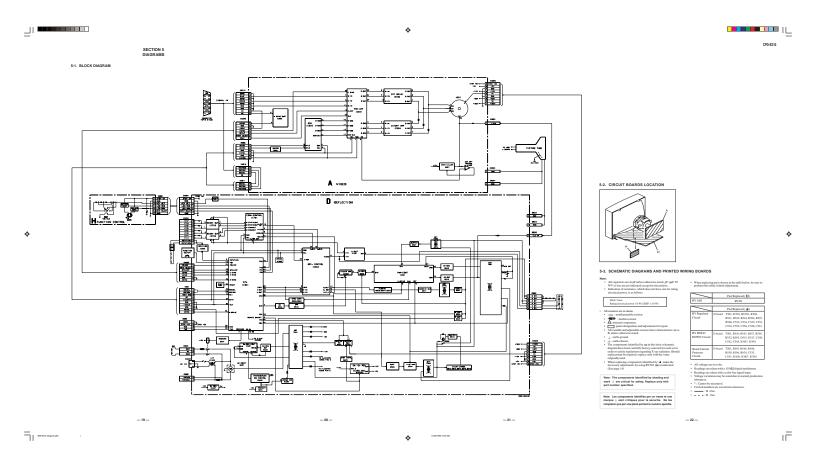
Adjust each misconvergence point in sequence.

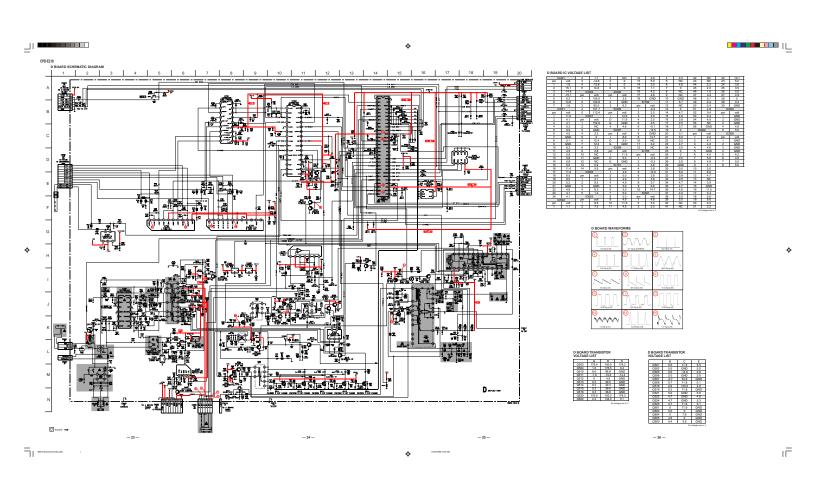
2. Repeat the procedure of A and B so that the convergence of the entire screen is within the specification.

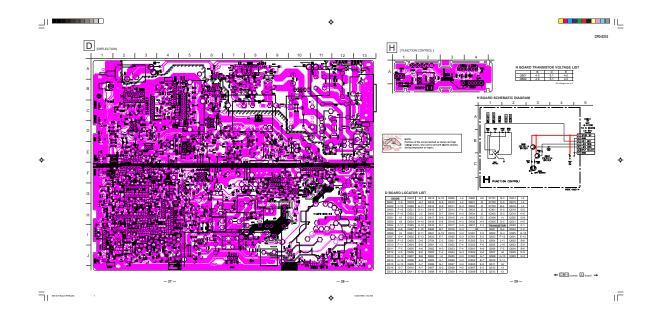
4-8. CONVERGENCE SPECIFICATION

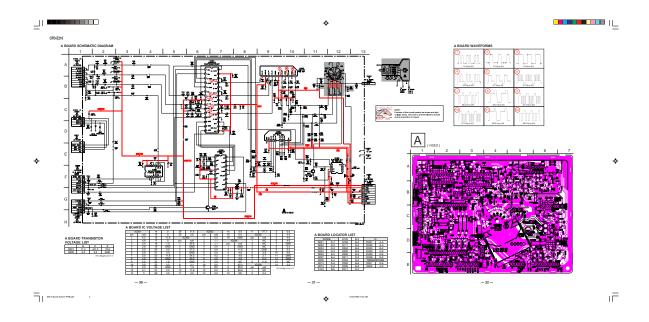


NOTES:	









5-4. SEMICONDUCTORS

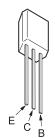
2SK3332

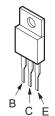
DTC143ESA

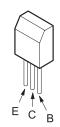
2SC4634LS-CB11

2SC3209LK-TP







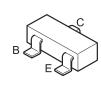


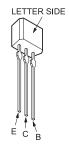
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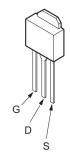
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DTC114EKA-T146 2SC3311A-QRSTA 2SA1309A-QRSTA 2SK2098-01MR-F119 2SK2843LBSSONY IRFU110

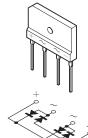






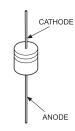


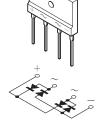
1SR139-400T31 HZ55.6NB2TD HZS4.7NB2TD HZS12NB2TD HZS1ONB2TD 1SS119-25 MTZJ-T-77-18

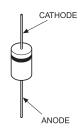


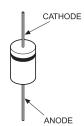
D3S4M HZS5.1NB2TD ERA34-10TP1 HZT33-02TE EGP10DPKG23 RGP10JPKG23

RGP10DG23 HZU5.6B2TRF D1NS6 D1NL40-TA UF4007G23 ERB91-02





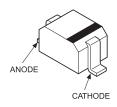


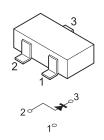


HSS82

RB441QT-77

D4SB60L





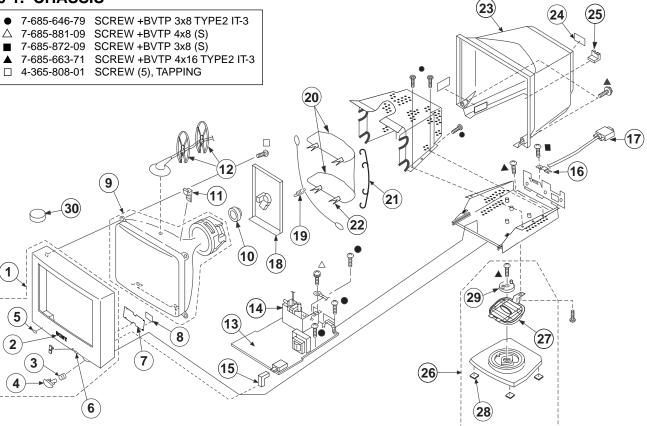
SECTION 6 EXPLODED VIEWS

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The component parts of an assembly are indicated by the reference numbers in the remarks column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note:

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

6-1. CHASSIS



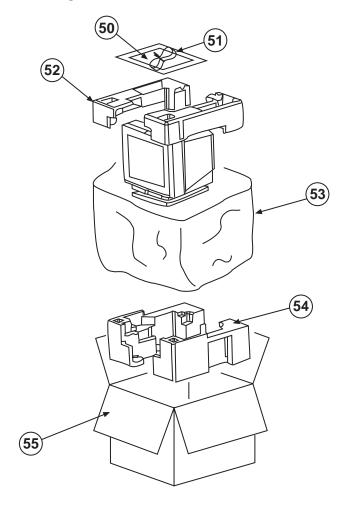
REF.NO	PART NO.	DESCRIPTION	REMARK
1	X-4037-432-1	BEZEL ASSY	2-5
2	4-042-353-41	EMBLEM (NO. 7), SONY	
3	3-653-339-21	SPRING, COMPRESSION	
4	4-071-152-02	BUTTON, POWER	
5	4-071-154-02	BUTTON, RESET	
6	4-071-155-01	BUTTON, MENU	
7 *	A-1372-697-A	H MOUNTED PC BOARD	
8 *	4-071-145-01	BRACKET, H	
	8-738-550-61	ITC ASSY 17TKB-R1	
10 △	1-452-923-41	NECK ASSEMBLY (NA-2915)	
44	4 040 007 04	ODAGED DV	
11	4-040-897-01	SPACER, DY	
12	3-704-372-31	- , -	
13 *			
14 A	1-453-311-11		
15	4-071-146-01	CAP, POWER	
16 *	4-045-131-01	STOPPER, CABLE	
17	1-791-490-11	CABLE ASSY(15PD-SUB CON	NECTOR)

REF.NO.	PART NO.	DESCRIPTION	REMARK
18 *	A-1294-771-A	A MOUNTED PC BOARD	
19 *	4-061-573-01	SPRING, TENSION	
20 △	1-419-092-11	COIL, DEGAUSSING	
21 *	4-371-521-01	BAND (L), DEGAUSS COIL	
22	4-045-123-01	HOLDER, DEGAUSSING COIL	
23 *	4-071-147-03	CABINET	
24 *	4-074-117-01	LABEL, INFORMATION	
25	4-071-156-01	COVER, CABLE	
26	X-4036-850-1	BASE ASSY, STAND	27-29
27	4-071-149-01	SLIDER	
28 *	4-060-533-01	CUSHION	
29	4-071-150-01	STOPPER, A	
30	1-452-032-00	MAGNET, DISC	
00	1 102 002 00	MINORET, DIOC	

The components identified with gray shading and a critical symbol (\triangle) are critical for safety. Replace only with part number specified.

Les composantsidentifies per un trame et une marque \triangle sont critiques pout le securite. Ne les remplacer que par une piece portant le numero specifie.

6-2. PACKING MATERIALS



REF.NO.	PART NO.	DESCRIPTION	<u>REMARK</u>
50	4-074-038-11	MANUAL, INSTRUCTION	
51 △	1-790-568-11	CORD SET, POWER	
52 *	4-070-972-01	CUSHION ASSY, UPPER	
53	4-041-927-11	BAG, POLYETHYLENE	
54 *	4-070-969-01	CUSHION ASSY, LOWER	
55 *	4-074-039-01	CARTON, INDIVIDUAL	

SECTION 7 ELECTRICAL PARTS LIST



Note:

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque \triangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

- The components identified by
 in this
 manual have been carefully factory-selected
 for each set in order to satisfy regulations
 regarding X-ray radiation. Should
 replacement be required, replace only with
 the value originally used.
- Items marked * are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted

RESISTORS

- · All resistors are in ohms
- F: nonflammable

When indicating parts by reference number, please include the board name.

REF. NO	. PART NO.	DESCRIPTION	<u>R</u>	EMAR	<u>(</u>	REF. NO.	PART NO.	DESCRIPTION	<u>R</u>	EMARK	
	7					C055	1-104-503-12	CERAMIC CHIP	0.1µF	10%	100V
$\perp \Delta$						C061	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
						C090	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
	_					C092	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
*	A-1294-771-A	A MOUNTED PC	BOARD			C102	1-137-528-11	MYLAR	0.1µF	10%	250V
	4-382-854-01	SCREW (M3X8),	D 6/W (+)			0104	1 164 004 11	CEDAMIC CHID	0.1	10%	25V
	4-302-004-01	SUREVV (IVISAO),	F, 3W (T)			C104 C105	1-164-004-11 1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V 25V
								CERAMIC CHIP	0.1µF		
						C106	1-137-528-11	MYLAR	0.1µF	10%	250V
	<u>CAPACITOR</u>					C112	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C001	1-162-318-11	CERAMIC	0.001µF	10%	500V	C130	1-216-295-91	SHORT			
C002	1-106-220-00	MYLAR	0.001µ1 0.1µF	10%	100V	0454	4 404 004 44	OFFIAMIO OLUP	0.4 5	400/	051/
C002	1-163-021-91	CERAMIC CHIP	0.1µI 0.01µF	10%	50V	C151	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
						C202	1-137-528-11	MYLAR	0.1µF	10%	250V
C007	1-104-664-11	ELECT	47µF	20%	25V	C204	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C008	1-104-664-11	ELECT	47µF	20%	25V	C205	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
0000	4 400 004 44	FLEOT	000 5	000/	401/	C206	1-137-528-11	MYLAR	0.1µF	10%	250V
C009	1-126-934-11	ELECT	220µF	20%	10V						
C010	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	C212	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C011	1-106-220-00	MYLAR	0.1µF	10%	100V	C230	1-216-295-91	SHORT			
C012	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	C251	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C014	1-107-932-11	ELECT	47µF	20%	100V	C302	1-137-528-11	MYLAR	0.1µF	10%	250V
						C304	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C015	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V						
C016	1-128-528-11	ELECT	470µF	20%	16V	C305	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C017	1-104-664-11	ELECT	47µF	20%	25V	C306	1-137-528-11	MYLAR	0.1µF	10%	250V
C018	1-107-961-91	ELECT	10µF	20%	250V	C312	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C022	1-104-664-11	ELECT	47µF	20%	25V	C330	1-216-295-91	SHORT			
						C351	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C027	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V				·		
C028	1-104-664-11	ELECT	47µF	20%	25V						
C029	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V		CONNECTO	D			
C032	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V		CONNECTO	<u>K</u>			
C033	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	CN301	1-506-108-41	PIN, CONNECTO	R (TERMIN	AL PIN)	
						CN303	1-695-915-11	TAB (CONTACT)			
C035	1-162-134-11	CERAMIC	470PF	10%	2KV	CN304	1-695-915-11	TAB (CONTACT)			
C036	1-104-503-12	CERAMIC CHIP	0.1µF	10%	100V	CN305 *	1-564-512-11	PLUG, CONNECT	OR, 9P		
C042	1-163-275-11	CERAMIC CHIP	0.001µF	5%	50V	CN306 *	1-564-509-11	PLUG, CONNECT			
C044	1-163-251-11	CERAMIC CHIP	100PF	5%	50V			,			
C046	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	CN309 *	1-564-511-11	PLUG, CONNECT	OR 8P		
			. In .			CN310 *	1-564-507-11	PLUG, CONNECT			
C047	1-104-664-11	ELECT	47µF	20%	25V	CN311 *	1-564-508-11	PLUG, CONNECT			
C049	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	CN313 *	1-564-512-11	PLUG, CONNECT			
C050	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	0,10,10	1 004 012 11	1 200, 001111201	JI 01		
C053	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V 25V						
C053	1-104-004-11	MYLAR	0.1µF	10%	250V						
0034	1-131-320-11	MITEVI	υ. τμΓ	10 /0	2JU V	1					

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified



REF.NO.	<u>Part no.</u>	DESCRIPTION	<u>RE</u>	MARK	REF.NO.	<u>Part no.</u>	<u>DESCRIPTION</u>	<u> </u>	REMARK	<u>(</u>
	DIODE					<u>JACK</u>				
D001	8-719-970-02	DIODE 1SR139-	-400T31		J001 🛆	1-251-598-11	SOCKET, CRT			
0002	8-719-911-19		25				,			
0003	8-719-911-19									
D004	8-719-911-19					CHID COND	HCTOR			
D005	8-719-911-19					CHIP COND	UCTOR			
					JR002	1-216-296-91	SHORT			
D007	8-719-109-89	DIODE RD5.6ES	SB2		JR005	1-216-296-91	SHORT			
D008	8-719-109-89	DIODE RD5.6ES	SB2		JR006	1-216-296-91	SHORT			
D014	8-719-911-19	DIODE 1SS119-2	-25		JR007	1-216-296-91	SHORT			
D015	8-719-911-19	DIODE 1SS119-2	-25		JR016	1-216-296-91	SHORT			
D104	8-719-970-83	DIODE HSS82								
					JR017	1-216-296-91	SHORT			
D105	8-719-970-83	DIODE HSS82			JR018	1-216-295-91	SHORT			
D106	8-719-970-83	DIODE HSS82			JR019	1-216-296-91	SHORT			
D111	8-719-062-51	DIODE 1PS226-1	115		JR020	1-216-296-91	SHORT			
D204	8-719-970-83	DIODE HSS82			JR021	1-216-296-91	SHORT			
D205	8-719-970-83	DIODE HSS82								
D206	8-719-970-83	DIODE HSS82				0011				
D200 D211	8-719-062-51		.115			<u>COIL</u>				
D304	8-719-970-83		1113		L002	1-410-682-31	INDUCTOR	470µH		
D304 D305					L003	1-408-397-00	INDUCTOR	1μH		
	8-719-970-83				L005	1-412-529-11	INDUCTOR	22µH		
D306	8-719-970-83		445		L007	1-410-482-31	INDUCTOR	100µH		
D311	8-719-062-51	DIODE 1PS226-	115		L009	1-216-295-91	SHORT	100411		
					1.040	4 440 044 44	FEDRITE	011		
	FERRITE B	EAD			L010	1-412-911-11	FERRITE	0μH		
					L102	1-412-052-21	INDUCTOR CHIP INDUCTOR	1µH		
FB001	1-412-911-11		0μΗ		L103	1-414-137-31		0.22µH		
FB004	1-412-911-11		0μΗ		L105	1-410-750-41	INDUCTOR	0.47µH		
FB005	1-412-911-11		0μΗ		L203	1-414-137-31	INDUCTOR	0.22µH		
FB006	1-412-911-11		0μΗ		1.005	4 440 750 44	INDUCTOR	0.47.11		
FB009	1-412-911-11	FERRITE	0μΗ		L205	1-410-750-41	INDUCTOR	0.47µH		
					L303	1-414-137-31	INDUCTOR	0.22µH		
FB010	1-412-911-11	FERRITE	0µH		L305	1-410-750-41	INDUCTOR	0.47µH		
FB011	1-412-911-11		0μΗ							
FB012	1-412-911-11	FERRITE	0μΗ							
FB102	1-216-295-91	SHORT	0			TRANSISTO	<u>R</u>			
FB202	1-216-295-91	SHORT	0				_			
FB302	1-216-295-91	SHORT	0		Q001 Q006	8-729-046-80 8-729-120-28	TRANSISTOR 2SO			
					QUUU	0-723-120-20	TRANSISTOR 250	J 1025-LJL(,	
	<u>FILTER</u>					DECISES				
FL002	1-412-911-11	FERRITE	OμΗ			RESISTOR				
002			νμ.,		R002	1-240-978-91	METAL CHIP	560	5%	1/10W
					R003	1-240-992-91	METAL CHIP	8.2K	5%	1/10W
	10				R004	1-240-984-91	METAL CHIP	1.8K	5%	1/10W
	<u>IC</u>				R005	1-242-774-91	METAL CHIP	330K	5%	1/10W
IC001	8-752-090-63	IC CXA2067S			R006	1-240-969-91	METAL CHIP	100	5%	1/10W
IC002	8-759-593-11									
IC002	8-759-589-35				R007	1-240-969-91	METAL CHIP	100	5%	1/10W
C003	8-749-016-27				R009	1-240-993-91	METAL CHIP	10K	5%	1/10W
			.EJ		R011	1-240-993-91	METAL CHIP	10K	5%	1/10W
C005	8-759-100-96				R012	1-240-993-91	METAL CHIP	10K	5%	1/10W
C006	8-759-269-07	IC SN74HCT02A	HINOK		R012	1-240-993-91	METAL CHIP	100	5%	1/10W
										1/10W
					R014	1-240-969-91	METAL CHIP	100	5%	1/10/\



The components identified by shading and mark $\ensuremath{\Delta}$ are critical for safety. Replace only with part number specified.

Note:

REF.NO.	PART NO.	DESCRIPTION	<u>R</u>	<u>EMARK</u>			REF.NO.	PART NO.	<u>DESCRIPTION</u>	RI	<u>EMARK</u>		_
R017	1-240-969-91	METAL CHIP	100	5%	1/10W		R302	1-242-776-91	METAL CHIP	470K	5%	1/10W	
R018	1-240-969-91		100	5%	1/10W		R304	1-240-965-91	METAL CHIP	47	5%	1/10W	
R020	1-240-969-91		100	5%	1/10W		R306	1-216-673-11	METAL CHIP	8.2K		1/10W	
R021	1-240-969-91		100	5%	1/10W		R307	1-216-651-11	METAL CHIP	1K		1/10W	
R021	1-240-909-91		220	5%	1/10W		R308	1-216-679-11	METAL CHIP	15K		1/10W	
RUZZ	1-240-973-91	WETAL CHIP	220	370	1/1000		K300	1-210-0/9-11	WETAL CHIP	ION	0.50%	1/1000	
R023	1-240-981-91	METAL CHIP	1K	5%	1/10W		R309	1-242-776-91	METAL CHIP	470K	5%	1/10W	
R024	1-240-989-91	METAL CHIP	4.7K	5%	1/10W		R311	1-249-404-00	CARBON	82	5%	1/4W	F
R028	1-240-989-91	METAL CHIP	4.7K	5%	1/10W		R317	1-216-295-91	SHORT				
R029	1-242-769-91	METAL CHIP	120K	5%	1/10W		R318	1-216-295-91	SHORT				
R030	1-240-969-91		100	5%	1/10W		R319	1-242-776-91	METAL CHIP	470K	5%	1/10W	
R031	1-240-981-91	METAL CHIP	1K	5%	1/10W		R330	1-216-022-00	RES,CHIP	75	5%	1/10W	
R035	1-240-901-91		IIV	J /0	1/1000		R351	1-210-022-00	SOLID	100	20%	1/10W	
			100	5%	1/10W		R361						
R041	1-240-969-91		100				KSOI	1-215-394-00	METAL	75	1%	1/4W	
R045	1-240-985-91		2.2K	5%	1/10W								
R046	1-242-768-91	METAL CHIP	100K	5%	1/10W			CDARK CAR	•				
R047	1-240-993-91	METAL CHIP	10K	5%	1/10W			SPARK GAP	-				
R048	1-219-398-51		2.2M	5%	1W		SG001 △	1-519-422-11	GAP, SPARK				
R049	1-216-697-91		82K		1/10W		SG002 △	1-517-499-21	GAP, SPARK				
R051	1-240-981-91		1K	5%	1/10W		SG101 △	1-517-499-21	GAP, SPARK				
R052	1-240-993-91		10K	5%	1/10W			1-517-499-21	GAP, SPARK				
11002	1 240 000 01	WEINE OIII	TOIX	070	171000			1-517-499-21	GAP, SPARK				
R053	1-219-621-91	METAL	22M	10%	1/4W								
R062	1-216-295-91	SHORT						7					
R064	1-202-830-00	SOLID	10K	20%	1/2W)						=
R102	1-242-776-91	METAL CHIP	470K	5%	1/10W			_					
R104	1-240-965-91		47	5%	1/10W		*	A-1346-865-A	D COMPLETE PC	ROARD			
D106	1 016 670 11	METAL CHID	0.01/	0.500/	1/10\\\			A-1340-003-A	D COMPLETE FO	DOARD			
R106	1-216-673-11		8.2K		1/10W			1-533-223-11	CLIP, FUSE				
R107	1-216-651-11		1K		1/10W			3-703-319-01	PURSE LOCK (DI	(A.15)			
R108	1-216-679-11		15K		1/10W			4-382-854-01	SCREW (M3X8),	,			
R109	1-242-776-91		470K	5%	1/10W	_		4-382-854-21	SCREW (M3X14),				
R111	1-249-405-11	CARBON	100	5%	1/4W	F			(),	, , , , ,			
R117	1-216-295-91	SHORT											
R118	1-216-295-91	SHORT						CAPACITOR					
R119	1-242-776-91	METAL CHIP	470K	5%	1/10W		C401	1-128-528-11	ELECT	470µF	20%	25V	
R130	1-216-022-00	RES,CHIP	75	5%	1/10W		C401	1-120-320-11	FILM	470μF 0.47μF	20 % 5%	250V	
R151	1-202-549-00		100	20%	1/2W							50V	
							C403	1-107-911-11	ELECT	220µF	20%		
R161	1-215-394-00	METAL	75	1%	1/4W		C404	1-128-528-11	ELECT	470µF	20%	25V	
R202	1-242-776-91		470K	5%	1/10W		C405	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V	
R204	1-240-965-91		47	5%	1/10W						==./	50 1	
R206	1-216-673-11		8.2K		1/10W		C406	1-137-368-11	MYLAR	0.0047µF	5%	50V	
R207	1-216-651-11		1K		1/10W		C407	1-137-372-11	MYLAR	0.022µF	5%	50V	
11/201	1-210-031-11	WILTAL OTH	IIV	0.5070	1/1000		C410	1-164-005-11	CERAMIC CHIP	0.47µF		25V	
R208	1-216-679-11	METAL CHIP	15K	0 500/	1/10W		C501	1-126-964-11	ELECT	10µF	20%	50V	
							C502	1-137-370-11	MYLAR	0.01µF	5%	50V	
R209	1-242-776-91		470K	5%	1/10W	_							
R211	1-249-405-11		100	5%	1/4W	٢	C503	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
R217	1-216-295-91						C504	1-102-030-00	CERAMIC	330PF	10%	500V	
R218	1-240-965-91	METAL CHIP	47	5%	1/10W		C505	1-109-878-11	CERAMIC	15PF	5%	2KV	
							C506	1-126-960-11	ELECT	1μF	20%	50V	
R219	1-242-776-91	METAL CHIP	470K	5%	1/10W		C507	1-131-653-11	FILM	0.19µF	5%	400V	
R230	1-240-962-91	METAL CHIP	27	5%	1/10W		5501	11		υ. τυμι	J ,0	1001	
R251	1-202-549-00	SOLID	100	20%	1/2W		C508	1-128-526-11	ELECT	100µF	20%	25V	
R261	1-215-394-00	METAL	75	1%	1/4W		C508	1-162-117-00	CERAMIC	100µF	10%	500V	
							1 0000	1-102-111-00	OLIVAINIO	10011	1 0 70	JUU V	

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Note:



REF.NO.	PART NO.	DESCRIPTION	RE	MARK		REF.NO	<u>).</u>	PART NO.	DESCRIPTION	RE	MARK	·
C510	1-102-228-00	CERAMIC	470PF	10%	500V	C561 2	Δ	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C511	1-117-663-11	FILM	0.22µF	5%	250V	C562		1-128-526-11	ELECT	100μF	20%	16V
C512	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	C563		1-163-005-11	CERAMIC CHIP	470PF	10%	50V
513	1-107-906-11	ELECT	10μF	20%	50V	C564		1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C514	1-115-521-11	FILM	0.82µF	5%	250V	C566		1-128-551-11	ELECT	22µF	20%	25V
5011	1 110 021 11	112111	0.02μ1	070	2001			1 120 001 11	22201	22μ1	2070	201
C515	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	C568		1-136-060-00	FILM	0.047µF	5%	400V
C516	1-119-862-11	FILM	0.3µF	5%	250V	C569		1-130-495-00	MYLAR	0.1µF	5%	50V
C517	1-137-370-11	MYLAR	0.01µF	5%	50V	C570		1-128-526-11	ELECT	100µF	20%	25V
C518	1-117-954-11	FILM	4300PF	3%	1.8KV	C572		1-107-651-11	ELECT	4.7µF	20%	250V
C519	1-117-621-11	FILM	1200PF	3%	1.2KV	C573		1-107-651-11	ELECT	4.7µF	20%	250V
C520	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	C574		1-117-879-91	MYLAR	0.01µF	10%	250V
C521	1-107-444-11	CERAMIC	100PF	5%	2KV	C575		1-110-641-51	ELECT	33µF	20%	200V
C522	1-136-684-51	MYLAR	0.0022µF	10%	100V	C576		1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C523	1-117-660-21	FILM	0.0022μ1 0.12μF	5%	250V	C577		1-115-349-51	CERAMIC	0.01µF	0 /0	2KV
C524	1-117-000-21	ELECT	33μF	20%	200V 200V	C577		1-113-349-31	CERAMIC	47PF	5%	2KV
,024	1-110-041-31	ELECT	ооμг	20%	200 V	C376		1-107-974-11	CERAINIC	4/77	370	ZNV
C525	1-136-060-00	FILM	0.047µF	5%	400V	C579		1-109-879-11	CERAMIC	22PF	5%	2KV
C526	1-164-646-11	CERAMIC	2200PF	10%	500V	C580		1-137-370-11	MYLAR	$0.01 \mu F$	5%	50V
527	1-117-879-91	MYLAR	0.01µF	10%	250V	C582		1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C528	1-115-349-51	CERAMIC	0.01µF		2KV	C583		1-130-495-00	MYLAR	0.1µF	5%	50V
C529	1-136-060-00	FILM	0.047µF	5%	400V	C601		1-104-664-11	ELECT	47µF	20%	10V
530	1-117-660-21	FILM	0.12µF	5%	250V	C602		1-162-117-00	CERAMIC	100PF	10%	500V
531	1-119-858-11	FILM	0.12µ1 0.068µF	5%	250V 250V	C602		1-126-942-61	ELECT	1000µF	20%	25V
532 A		MYLAR	0.000µF	10%	100V		Δ	1-120-942-01	MYLAR	0.47μF	20%	250V
C534 △ C535	1-137-419-11 1-130-495-00	MYLAR MYLAR	0.033µF 0.1µF	10% 5%	100V 50V	C605 Z	Δ	1-104-708-11 1-104-653-11	MYLAR ELECT	0.47μF 220μF	20% 20%	250V 16V
J000	1-130-433-00	WITLAN	υ. τμι	3 /0	30 V	C000		1-104-055-11	ELECT	ΖΖΟμΓ	20 /0	10 V
C536	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	C610		1-107-852-11	ELECT(BLOCK)	330µF	20%	400V
C538	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	C611		1-163-007-11	CERAMIC CHIP	680PF	10%	50V
℃539 🛆	1-137-150-11	MYLAR	0.01µF	10%	100V	C612 Z	Δ	1-119-858-11	FILM	0.068µF	5%	250V
℃540 🛆	1-136-203-11	FILM	10000PF	5%	630V	C613 4	Δ	1-162-115-00	CERAMIC	330PF	10%	2KV
C541	1-126-963-11	ELECT	4.7µF	20%	50V	C614		1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C542 △	1-126-964-11	ELECT	10μF	20%	50V	C615		1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C543	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C616		1-107-907-11	ELECT	22μF	20%	25V
544 A		MYLAR	0.01µF	5%	50V	C617		1-107-907-11	ELECT	22μF	20%	25V
C545	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V	C618		1-130-495-00	MYLAR	0.1μF	5%	50V
5546		CERAMIC CHIP	0.022μF 220PF		50V 50V	C619			CERAMIC CHIP		10%	50V
,0 4 0	1-163-259-91	CERAWIC CHIP	220FF	5%	307	C019		1-164-161-11	CERAWIC CHIP	0.0022µF	10%	307
547	1-107-902-11	ELECT	1µF	20%	50V	C620		1-162-117-00	CERAMIC	100PF	10%	500V
548	1-130-471-00	MYLAR	0.001µF	5%	50V	C621		1-104-712-11	ELECT	47µF	0	200V
C549	1-137-375-11	MYLAR	0.068µF	5%	50V	C622		1-107-933-11	ELECT	100µF	20%	100V
2550	1-126-933-11	ELECT	100µF	20%	16V	C623		1-104-666-11	ELECT	220µF	20%	25V
2551	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	C624		1-107-885-11	ELECT	3300µF	20%	16V
5552	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	C625		1-126-768-11	ELECT	2200µF	20%	16V
	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	C625		1-120-766-11	ELECT	2200µF 220µF	20%	16V
		CERAMIC CHIP			25V	C627			ELECT			10V
			0.1µF	10%		1		1-126-934-11		220µF	20%	
C555		MYLAR CERAMIC CHIP	0.1µF 220PF	5% 5%	50V 50V	C628 C630		1-128-526-11 1-126-935-11	ELECT ELECT	100µF 470µF	20% 20%	25V 16V
										·		
	1-107-907-11	ELECT	22µF	20%	50V	C631		1-126-935-11	ELECT	470µF	20%	16V
	1-126-960-11	ELECT	1μF	20%	50V	C632		1-128-954-21	ELECT	1000µF	20%	25V
C557 C558 △ C559		ELECT MYLAR	1μF 0.0047μF	20% 5%	50V 50V	C632 C633		1-128-954-21 1-164-004-11	ELECT CERAMIC CHIP	1000μF 0.1μF	20% 10%	25V 25V



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Note:

REF.NO.	PART NO.	DESCRIPTION	RE	MARK		REF.NO.	PART NO.	DESCRIPTION	<u>R</u>	EMARK	,
C636	1-113-979-51	MYLAR	0.047µF	10%	1.5KV	C923	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C637	1-107-888-11	ELECT	47µF	20%	25V	C924	1-126-965-11	ELECT	22µF	20%	50V
C640	1-113-912-11	CERAMIC	0.0047µF	20%	250V	C925	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C641	1-126-933-11	ELECT	100µF	20%	16V	C926	1-126-935-11	ELECT	470µF	20%	16V
C643	1-113-912-11	CERAMIC	0.0047µF	20%	250V	C927	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C647	1-102-228-00	CERAMIC	470PF	10%	500V	C928	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C650	1-163-019-00		0.0068µF	10%	50V	C929	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C660 △			0.0047µF	20%	250V	C930	1-137-370-11	MYLAR	0.01µF	5%	50V
C661	1-117-699-11	CERAMIC	0.001µF	20%	250V	C931	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C701	1-164-004-11		0.1µF	10%	25V	C935	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C702	1-126-963-11	ELECT	4.7µF	20%	50V	C936	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C703	1-136-169-00		0.22µF	5%	50V	C937	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C704	1-163-259-91		220PF	5%	50V	C938	1-126-934-11	ELECT	220µF	20%	16V
C705	1-130-495-00		0.1µF	5%	50V		1 120 001 11	22201		2070	
C706	1-163-113-00		68PF	5%	50V						
C707	1-163-113-00	CERAMIC CHIP	68PF	5%	50V		CONNECTO	<u>)R</u>			
C707	1-103-113-00		0.1µF	5% 5%	50V 50V	CN501 *	1-580-798-11	CONNECTOR PIN	N (DY) 6P		
					25V	CN502 *		PLUG, CONNECT			
C709 C710	1-126-941-11		470µF	20%	25 V 25 V	CN502 CN512	1-695-915-11	TAB (CONTACT)	JI 01		
	1-126-941-11		470µF	20%		CN512	1-695-915-11	TAB (CONTACT)			
C711	1-130-495-00	MYLAR	0.1µF	5%	50V		1-251-644-11	INLET, AC 3P (W	ITH NOISE	FILTER)	
C712	1-130-495-00		0.1µF	5%	50V	011004 #		DIN CONTESTO	D /DO DO !!		
C713	1-126-927-11	ELECT	2200µF	20%	10V	CN601 *				KD) 3P	
C714	1-163-131-00		390PF	5%	50V	CN602 *		PIN, CONNECTO	R 2P		
C715	1-126-935-11	ELECT	470µF	20%	16V	CN604	1-695-915-11	TAB (CONTACT)	.00 400		
C716	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V	CN701 * CN901 *		PLUG, CONNECT BASE POST	OR 10P		
C718	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V						
C723	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	CN902 *		PLUG, CONNECT			
C725	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	CN903 *		PLUG, CONNECT			
C729	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	CN904 *	1-564-510-11	PLUG, CONNECT	OR 7P		
C733	1-163-003-11	CERAMIC CHIP	330PF	10%	50V						
C901	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V		DIODE				
C902	1-126-935-11	ELECT	470µF	20%	16V						
C903	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	D401	8-719-052-90	DIODE D1NL40-T			
C905	1-137-375-11		0.068µF	5%	50V	D402	8-719-921-40	DIODE MTZJ-4.7			
C906	1-136-177-00		1μF [']	5%	50V	D403	8-719-988-61	DIODE 1SS355TE			
			·			D404 D501	8-719-058-24 8-719-110-31	DIODE RB501V-4 DIODE RD12ESB			
C908	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	וטטט	0-113-110-91	חוסחר עחוקניסם	_		
C909	1-126-926-11	ELECT	1000µF	20%	10V	D502	8-719-981-00	DIODE ERC81-00	И		
C910	1-107-713-11	ELECT	4.7µF	20%	50V	D502 D504	8-719-981-00	DIODE ERC81-00			
C911	1-137-370-11	MYLAR	0.01µF	5%	50V						
C912	1-126-933-11	ELECT	100µF	20%	16V	D505	8-719-941-74	DIODE ERB91-02			
						D506	8-719-075-18	DIODE PDE 4EST	-		
C913	1-130-495-00		0.1µF	5%	50V	D507	8-719-109-85	DIODE RD5.1ESE	02		
C914	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	DEAA	0 740 440 47	DIODE DEVASOR	0		
C915	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	D509	8-719-110-17	DIODE RD10ESB			
C916	1-126-965-11	ELECT	22µF	20%	50V	D510	8-719-018-82	DIODE RGP02-20			
C917	1-163-021-91		0.01µF	10%	50V	D511	8-719-109-89	DIODE RD5.6ESE			
			•			D512	8-719-109-90	DIODE 1SS119-2			
C918	1-126-964-11	ELECT	10µF	20%	50V	D513	8-719-109-91	DIODE D1NL40-T	A2		
C920	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V						
C921	1-126-935-11	ELECT	470µF	20%	16V	D514	8-719-109-92	DIODE HSS82			
C922	1-107-712-11	ELECT	3.3µF	20%	50V	D515 △		DIODE RGP02-20			
			•			D516	8-719-109-94	DIODE D2L40-TA			

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Note:



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>REMARK</u>
D517 △	8-719-109-95	DIODE HZT33-02TE		D917	8-719-109-144	DIODE 1SS355TE-	17
D518	8-719-109-96	DIODE RD10ESB2		D918	8-719-109-145	DIODE HZU5.6B2T	RF
0519	8-719-109-97	DIODE 1SS119-25		D919	8-719-109-146	DIODE 1SS355TE-	17
520	8-719-109-98	DIODE RGP02-20EL-6394		D920	8-719-109-147	DIODE RB501V-40	TE-17
521	8-719-109-99	DIODE RGP02-20EL-6394		D921	8-719-109-148	DIODE 1SS355TE-	17
522	8-719-109-100	DIODE 1SS119-25		D924	8-719-109-149	DIODE 1SS355TE-	17
0523	8-719-109-101			D925	8-719-109-150		
D524	8-719-109-102			D926	8-719-109-151	DIODE 1SS355TE-	
D525	8-719-109-103			D927	8-719-109-152		
D527	8-719-109-104			D928	8-719-109-153		
0529	8-719-109-105	DIODE RD18ESB2		D929	8-719-109-154	DIODE HZU5.6B2T	PE
0601 △	8-719-109-106			D930	8-719-109-155	DIODE HZU5.6B2T	
D602 A	8-719-109-107			D931	8-719-109-156	DIODE RD5.6ESB2	
0603	8-719-109-107			D931	8-719-109-150	DIODE RD5.6ESB2	
)603)604	8-719-109-108			D932 D933	8-719-109-157	DIODE RD5.6ESB2	
/UU 1	0-113-103-103	DIODE 100118-20		שטט	0-112-102-100	מוסחב עחטינבטם?	
0605	8-719-109-110			D934	8-719-109-159	DIODE HZU5.6B2T	
0606 △	8-719-109-111			D935	8-719-109-160		
0607	8-719-109-112			D936	8-719-109-161	DIODE RD5.6ESB2	
0608	8-719-109-113			D937	8-719-109-162	DIODE RD5.6ESB2	
0609 △	8-719-109-114	DIODE 1SS119-25					
0610	8-719-109-115				FUSE		
0611	8-719-109-116					=======================================	
0612	8-719-109-117			F601 △	1-576-231-11	FUSE (H.B.C.) 4A/	250V
0613	8-719-109-118		i9				
0614	8-719-109-119	DIODE D1NS6			FERRITE BE	AD	
D615	8-719-109-120	DIODE EGP10D					011
D616	8-719-109-121	DIODE EGP10D		FB502	1-410-396-41	FERRITE	0μΗ
D617	8-719-109-122	DIODE RGP10JPKG23		FB504	1-412-911-11	FERRITE	0μΗ
D618	8-719-109-123	DIODE FMN-G12S		FB506	1-412-911-11	FERRITE	0μΗ
0619	8-719-109-124	DIODE FMN-G12S		FB904	1-543-961-22	FERRITE	0μΗ
0620	8-719-109-125	DIODE RH-1A					
0621	8-719-109-126	DIODE 1SS119-25			<u>IC</u>		
0622	8-719-109-127	DIODE FMN-G12S		10404	0 750 220 50	IC TDA0477	
704	8-719-109-128	DIODE 1SS119-25		IC401	8-759-339-59	IC TDA8177	
901	8-719-109-129	DIODE 1SS355TE-17		IC501 A		IC UPC6757CS	
				IC502	8-759-803-42 8-759-803-42	IC LA6500-FA	
902	8-719-109-130	DIODE HZU5.6B2TRF		IC503		IC LA6500-FA	
903	8-719-109-131			IC601 △	8-759-594-75	IC TEA1504/N2	
904	8-719-109-132	DIODE HZU5.6B2TRF		10000	0 750 500 70	IC DAGGACT VE	
905	8-719-109-133	DIODE 1SS119-25		IC602	8-759-592-79	IC TI DE24 DA VIII	OT.
906	8-719-109-134			IC603 A		IC TLP621D4-Y-LF	21
				IC604	8-759-586-17	IC TL1431CZ-AP	
907	8-719-109-135	DIODE 1SS355TE-17		IC605	8-759-637-83	IC PQ12RD8S	
	8-719-109-136			IC607 △	8-759-450-47	IC BA05T	
	8-719-109-137			10000		10 1 =005011	
908				IC608	8-759-231-53	IC L7805CV	
)908)909	8-719-109-138			IC701	8-759-595-52	IC CXA8070AP	
9908 9909 9910	8-719-109-138 8-719-109-139	DIODE 1SS355TE-17		IC702	8-749-015-00	IC STK391-110	
)908)909)910	8-719-109-138 8-719-109-139	DIODE 1SS355TE-17					
0908 0909 0910 0911	8-719-109-139			IC703	8-759-822-38	IC LA6510	
9908 9909 9910 9911	8-719-109-139 8-719-109-140	DIODE 1SS355TE-17				IC LA6510 IC CXD9528S	
9908 9909 9910 9911 9913	8-719-109-139 8-719-109-140 8-719-109-141	DIODE 1SS355TE-17 DIODE 1SS355TE-17		IC703 IC901 🛆	8-759-596-69	IC CXD9528S	
0908 0909 0910 0911 0913 0914 0915	8-719-109-139 8-719-109-140	DIODE 1SS355TE-17 DIODE 1SS355TE-17 DIODE 1SS355TE-17		IC703			



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Note:

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	<u>R</u>	EMARK		_
IC905	8-759-527-76	IC M24C08-MN6T		L513	1-414-856-11	INDUCTOR	10µH			
				L602	1-412-529-11	INDUCTOR	22µH			
				L603	1-412-537-31	INDUCTOR	100µH			
	CHIP CONE	<u>UCTOR</u>		L604	1-406-665-11		100µH			
JR001	1-216-296-91	SHORT		L606	1-406-665-11	INDUCTOR	100µH			
JR003	1-216-295-91	SHORT								
JR004	1-216-295-91	SHORT			FILTER					
JR006	1-216-295-91	SHORT			FILTER					
JR007	1-216-295-91	SHORT		LF602 △	1-429-180-11	TRANSFORMER	, LINE FILTE	:R		
JR008	1-216-296-91	SHORT								
JR009	1-216-295-91	SHORT			TRANSISTO) P				
JR010	1-216-296-91	SHORT			INAMOIOTO	<u> </u>				
JR011	1-216-296-91	SHORT		Q501	8-729-120-28	TRANSISTOR 29	C1623-L5L6			
JR012	1-216-295-91	SHORT		Q502	8-729-026-49	TRANSISTOR 29	SA1037AK-T1	46-R		
011012	1 210 200 01	on on		Q503	8-729-035-54	TRANSISTOR 29	SJ449			
JR013	1-216-295-91	SHORT		Q504	8-729-031-89			(A)		
JR013	1-216-296-91	SHORT		Q505	8-729-119-76	TRANSISTOR 28	,	,		
JR015	1-216-295-91	SHORT		2000						
				Q506	8-729-119-76	TRANSISTOR 25	SΔ1175_HFF			
JR016	1-216-295-91			Q507	8-729-049-17	TRANSISTOR 28		Y - CC		
JR017	1-216-295-91	SHORT		Q508	8-729-119-78	TRANSISTOR 28		1-00		
IDO40	4 240 205 04	OLIODT		Q510	8-729-046-60			NV		
JR018	1-216-295-91	SHORT		Q510 Q511	8-729-040-00	TRANSISTOR IR		INI		
JR019	1-216-296-91	SHORT		QJII	0-729-042-34	INANSISTON IN	TUTTUA			
JR020	1-216-296-91	SHORT		Q512	0 700 047 70	TRANSISTOR 25	V21EE 01			
JR021	1-216-296-91	SHORT			8-729-047-72			T440		
JR022	1-216-295-91	SHORT		Q513	8-729-043-41	TRANSISTOR 29		K-F119		
				Q514	8-729-047-72					
JR023	1-216-295-91	SHORT		Q515	8-729-047-72					
JR024	1-216-296-91	SHORT		Q516	8-729-047-72	TRANSISTOR 29	SK3155-01			
JR025	1-216-296-91	SHORT		2=12	. =					
JR027	1-216-296-91	SHORT		Q518	8-729-140-50	TRANSISTOR 25				
JR028	1-216-296-91	SHORT		Q519	8-729-029-68	TRANSISTOR D				
				Q520	8-729-035-54	TRANSISTOR 25				
JR029	1-216-295-91	SHORT		Q521	8-729-119-76	TRANSISTOR 28				
JR030	1-216-295-91	SHORT		Q522	8-729-027-23	TRANSISTOR D	TA114EKA-T	146		
JR032	1-216-296-91	SHORT								
JR033	1-216-296-91	SHORT		Q524	8-729-026-49	TRANSISTOR 25		46-R		
JR034	1-216-295-91	SHORT		Q525	8-729-119-78	TRANSISTOR 28				
				Q601	8-729-029-92					
JR038	1-216-296-91	SHORT			8-729-048-61	TRANSISTOR 28		SONY		
JR604	1-216-295-91	SHORT		Q603	8-729-900-53	TRANSISTOR D	TC114EK			
JR606	1-216-295-91	SHORT								
				Q604	8-729-119-78		C2785-HFE			
				Q605	8-729-900-53	TRANSISTOR D	TC114EK			
	COIL			Q903	8-729-120-28	TRANSISTOR 25	C1623-L5L6			
L501	1-406-663-21	INDUCTOR	47μH							
L502	1-406-663-21		47µH		DEGISTAR					
L503	1-411-594-41		5mH		RESISTOR					
L505	1-412-552-11		2.2mH	R401	1-249-381-11	CARBON	1	5%	1/4W	F
L505	1-412-548-31	INDUCTOR	820µH	R402	1-215-866-11		330	5%	1W	F
LUUU	1-412-040-01	אסוסטווו	οζυμι ι	R403	1-214-661-21	METAL	1.5	1%	1/4W	•
L507	1-414-856-11	INDUCTOR	10µH	R404	1-216-669-11		5.6K		1/10W	
L507				R405	1-214-661-21	METAL	1.5	1%	1/4W	
	1-419-198-21			11700	1 417 001-41	IVI = 17 \L	1.0	1 /0	17 T V V	
L509	1-419-198-21			R406	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	
L510	1-416-367-11	,		R407	1-240-985-91		2.2K	5%	1/10W	
L511	1-414-187-11	INDUCTOR	47µH	11707	1-2-10-300-31	WILLIAL OTH	۷.۷۱	J /0	17 10 11	

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Les composants identifies per un trame et une marque $\ensuremath{\underline{\dot{\Lambda}}}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION		REMARK			REF.N	<u>0.</u>	PART NO.	DESCRIPTION	<u> </u>	REMARK		_
R408	1-240-993-91	METAL CHIP	10K	5%	1/10W		R547	Δ	1-215-477-00	METAL	220K	1%	1/4W	
R409	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W		R548		1-215-423-00	METAL	1.2K	1%	1/4W	
R410	1-216-677-11	METAL CHIP	12K	0.50%	1/10W			Δ	1-215-464-00	METAL	62K	1%	1/4W	
R500	1-249-377-11	CARBON	0.47	5%	1/4W	F	R550		1-215-423-00	METAL	1.2K	1%	1/4W	
R501	1-240-969-91	METAL CHIP	100	5%	1/10W		R551		1-216-687-11	METAL CHIP	33K	0.50%	1/10W	
R502	1-218-758-11	METAL CHIP	180K	0.50%			R552	Δ	1-215-463-00	METAL	56K	1%	1/4W	
R503	1-216-675-91	METAL CHIP	10K	0.50%			R553		1-216-698-11	METAL CHIP	91K		1/10W	
R504	1-249-377-11	CARBON	0.47	5%		F	R554		1-218-756-11	METAL CHIP	150K		1/10W	
R505	1-240-993-91	METAL CHIP	10K	5%	1/10W		R556		1-216-691-11	METAL CHIP	47K		1/10W	
R506	1-215-481-00	METAL	330K	1%	1/4W		R557		1-240-996-91	METAL CHIP	18K	5%	1/10W	
R507	1-215-431-00	METAL	2.7K	1%	1/4W		R558		1-216-671-11	METAL CHIP	6.8K		1/10W	
R508	1-247-807-31	CARBON	100	5%	1/4W		R559		1-216-661-11	METAL CHIP	2.7K		1/10W	
R509	1-247-863-91	CARBON	22K	5%	1/4W		R560		1-216-679-11	METAL CHIP	15K		1/10W	_
R510 △	1-215-437-00	METAL	4.7K	1%	1/4W	_	R561		1-216-474-11	METAL OXIDE	82	5%	3W	F
R511	1-249-381-11	CARBON	1	5%	1/4W	F	R562		1-215-451-00	METAL	18K	1%	1/4W	
R512	1-249-389-11	CARBON	4.7	5%	1/4W	_	R563		1-249-383-11	CARBON	1.5	5%	1/4W	F
R513	1-215-888-00	METAL OXIDE	220	5%	2W	F		Δ	1-242-764-91	METAL CHIP	47K	5%	1/10W	
R514	1-240-997-91	METAL CHIP	22K	5%	1/10W	_	R565		1-215-481-00	METAL	330K	1%	1/4W	_
R515	1-249-417-11	CARBON	1K	5%	1/4W	F	R566		1-215-859-00	METAL OXIDE	22	5%	1W	F
R516	1-214-844-81	METAL	150	1%	1/2W		R567	Δ	1-240-993-91	METAL CHIP	10K	5%	1/10W	
R517	1-216-393-00	METAL OXIDE	2.2	5%	3W	F	R568	Δ	1-249-437-11	CARBON	47K	5%	1/4W	
R518	1-216-393-00	METAL OXIDE	2.2	5%	3W	F	R569		1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R519	1-215-463-00	METAL	56K	1%	1/4W		R570		1-247-831-91	CARBON	1K	5%	1/4W	
R520	1-249-397-11	CARBON	22	5%	1/4W	F	R571		1-215-926-00	METAL OXIDE	33K	5%	3W	F
R521	1-249-417-11	CARBON	1K	5%	1/4W	F	R572		1-249-437-11	CARBON	47K	5%	1/4W	
R522	1-249-401-11	CARBON	47	5%	1/4W		R573		1-247-887-00	CARBON	220K	5%	1/4W	
R523	1-215-463-00	METAL	56K	1%	1/4W		R574		1-249-421-11	CARBON	2.2K	5%	1/4W	
R524	1-215-463-00	METAL	56K	1%	1/4W		R575		1-260-314-11	CARBON	68	5%	1/2W	
R525	1-249-417-11	CARBON	1K	5%	1/4W	F	R576		1-249-437-11	CARBON	47K	5%	1/4W	
R527	1-249-429-11	CARBON	10K	5%	1/4W		R577		1-215-908-00	METAL OXIDE	33	5%	3W	F
R528	1-240-997-91	METAL CHIP	22K	5%	1/10W		R578		1-216-448-11	METAL OXIDE	39	5%	2W	F
R529	1-249-429-11	CARBON	10K	5%	1/4W	F	R579		1-247-883-00	CARBON	150K	5%	1/4W	
R530	1-216-474-11		82	5%	3W	F	R580		1-240-995-91	METAL CHIP	15K	5%	1/10W	
R531	1-216-474-11		82	5%	3W	F	R581		1-249-429-11	CARBON	10K	5%	1/4W	
R532	1-249-385-11	CARBON	2.2	5%	1/4W	F	R582		1-249-402-11	CARBON	56	5%	1/4W	F
R533	1-249-417-11	CARBON	1K	5%	1/4W	F	R583		1-240-993-91	METAL CHIP	10K	5%	1/10W	
R534	1-249-405-11	CARBON	100	5%	1/4W	F	R584		1-240-989-91	METAL CHIP	4.7K	5%	1/10W	
R535	1-215-463-00	METAL	56K	1%	1/4W		R585		1-247-831-91	CARBON	1K	5%	1/4W	
R536	1-249-417-11	CARBON	1K	5%	1/4W	F	R586		1-249-421-11	CARBON	2.2K	5%	1/4W	
R537	1-215-463-00	METAL	56K	1%	1/4W		R587		1-247-831-91	CARBON	1K	5%	1/4W	
R538	1-215-905-11	METAL OXIDE	10	5%	3W	F	R589		1-249-425-11	CARBON	4.7K	5%	1/4W	
R539	1-215-905-11	METAL OXIDE	10	5%	3W	F	R590		1-215-453-00	METAL	22K	1%	1/4W	
R540 △			200K	1%	1/4W		R591		1-214-844-81	METAL	150	1%	1/2W	
R541 △		METAL	1K	1%	1/4W		R592		1-214-844-81	METAL	150	1%	1/2W	
R542 △	1-215-421-00	METAL	1K	1%	1/4W		R594		1-240-973-91	METAL CHIP	220	5%	1/10W	
R543 🛆	1-249-389-11	CARBON	4.7	5%	1/4W	F	R595	Δ	1-215-477-00	METAL	220K	1%	1/4W	
R544 △		CARBON	1M	5%	1/4W		R596		1-215-423-00	METAL	1.2K	1%	1/4W	
R545	1-216-691-11	METAL CHIP	47K	0.50%	1/10W		R597		1-259-880-11	CARBON	2.2M	5%	1/4W	
R546	1-215-457-00	METAL	33K	1%	1/4W		R599		1-247-831-91	CARBON	1K	5%	1/4W	



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Note:

REF.NO.	PART NO.	DESCRIPTION	<u> </u>	REMARK			REF.NO.	PART NO.	DESCRIPTION		REMARK		_
R600	1-205-998-11	CEMENTED	1	5%	10W		R656	1-215-893-11	METAL OXIDE	1.5K	5%	2W	F
R602	1-219-513-11		4.7M	5%	1/2W		R660	1-260-119-11	CARBON	47K	5%	1/2W	
R603	1-249-403-11		68	5%	1/4W		R661	1-215-902-11	METAL OXIDE	47K	5%	2W	F
R604 🛆	1-220-827-91		560K	5%	1/2W		R663	1-216-663-11	METAL CHIP	3.3K		1/10W	
R605	1-211-761-71		0.1	10%	1/2W		R665	1-216-663-11	METAL CHIP	3.3K		1/10W	
11000	121110111	1120, 1 002	0.1	1070			1,000	1 210 000 11	mente on m	0.010	0.0070		
R606	1-218-768-11	METAL CHIP	470K	0.50%	1/10W		R703	1-249-410-11	CARBON	270	5%	1/4W	
R607	1-240-997-91		22K	5%	1/10W		R704	1-216-673-11	METAL CHIP	8.2K		1/10W	
R608	1-215-473-00) METAL	150K	1%	1/4W		R705	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R609	1-216-665-11		3.9K	0.50%			R706	1-216-667-11	METAL CHIP	4.7K		1/10W	
R610	1-216-651-11		1K	0.50%			R707	1-216-659-11	METAL CHIP	2.2K		1/10W	
R611	1-240-961-91	METAL CHIP	22	5%	1/10W		R708	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R612	1-247-791-91	CARBON	22	5%	1/4W		R709	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R613 △	. 1-219-513-11	CARBON	4.7M	5%	1/2W		R710	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R614	1-216-345-11	METAL OXIDE	0.47	5%	1W	F	R711	1-216-346-00	METAL OXIDE	0.56	5%	1W	F
R615	1-242-778-91	METAL CHIP	680K	5%	1/10W		R712	1-215-860-11	METAL OXIDE	33	5%	1W	F
R616	1-242-780-91		1M	5%	1/10W		R713	1-216-347-11	METAL OXIDE	0.68	5%	1W	F
R617	1-240-969-91		100	5%	1/10W		R716	1-215-860-11	METAL OXIDE	33	5%	1W	F
R618	1-216-635-11		220	0.50%			R717	1-216-353-00	METAL OXIDE	2.2	5%	1W	F
R619	1-215-893-11		1.5K	5%	2W	F	R718	1-215-863-11	METAL OXIDE	100	5%	1W	F
R620	1-216-687-11	METAL CHIP	33K	0.50%	1/10W		R719	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	
D004	4 040 000 00	DEC CUID	4401/	5 0/	4 /4 0) 4 /		D704	4 040 400 44	METAL OVIDE	40	5 0/	41.4.7	_
R621	1-216-098-00	,	110K	5%	1/10W		R724	1-216-422-11	METAL OXIDE	18	5%	1W	F
R622	1-247-791-91		22	5%	1/4W		R727	1-216-679-11	METAL CHIP	15K	0.50%		_
R623	1-216-615-91		33	0.50%			R728	1-215-863-11	METAL OXIDE	100	5%	1W	F
R624	1-216-611-11		22	0.50%			R729	1-216-353-00	METAL OXIDE	2.2	5%	1W	F
R625	1-260-332-51	CARBON	2.2K	5%	1/2W		R730	1-216-421-11	METAL OXIDE	12	5%	1W	F
R626	1-240-985-91	METAL CHIP	2.2K	5%	1/10W		R731	1-216-295-91	SHORT				
R627	1-249-377-11		0.47	5%		F	R733	1-216-295-91	SHORT				
R628	1-249-377-11		9.1K	0.50%		'	R735	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R629	1-249-441-11		100K	5%	1/4W		R737	1-216-659-11	METAL CHIP	2.2K		1/10W	
R630 △			0.12	10%	1/4VV		R739	1-240-993-91	METAL CHIP	10K	5%	1/10W	
11000 23	1 211 01411	ILO, I OOL	0.12	1070	1/244		11700	1 240 000 01	WILITAL OTHI	1010	570	171011	
R631 △	1-211-874-71	RES, FUSE	0.12	10%	1/2W		R741	1-249-377-11	CARBON	0.47	5%	1/4W	F
R633	1-249-429-11		10K	5%	1/4W		R743	1-249-377-11	CARBON	0.47	5%	1/4W	F
	1-211-874-71		0.12	10%	1/2W		R745	1-240-949-91	METAL CHIP	2.2	5%	1/10W	
R635	1-215-925-11		22K	5%	3W	F	R747	1-240-949-91	METAL CHIP	2.2	5%	1/10W	
R636	1-260-119-11		47K	5%	1/2W		R753	1-216-679-11	METAL CHIP	15K		1/10W	
R637	1-215-902-11		47K	5%	2W	F	R755	1-216-667-11	METAL CHIP	4.7K		1/10W	
	1-211-874-71		0.12	10%	1/2W		R903	1-240-981-91	METAL CHIP	1K	5%	1/10W	
	. 1-211-874-71		0.12	10%	1/2W		R904	1-240-981-91	METAL CHIP	1K	5%	1/10W	
R640	1-249-381-11		1	5%	1/4W	F	R905	1-216-295-91	SHORT	0			
R642	1-216-641-11	METAL CHIP	390	0.50%	1/10W		R906	1-240-993-91	METAL CHIP	10K	5%	1/10W	
D040	4 045 407 00	METAL	001/	40/	4 / 4\ A /		D007	4 000 007 04	OARRON	400	F0/	4 10 14 1	
R643	1-215-467-00		82K	1%	1/4W		R907	1-260-087-81	CARBON	100	5%	1/2W	
R645	1-216-675-91		10K	0.50%			R908	1-240-985-91	METAL CHIP	2.2K	5% 5%	1/10W	
R646	1-242-763-91		39K	5%	1/10W		R909	1-240-985-91	METAL CHIP	2.2K	5% 5%	1/10W	
R647	1-240-993-91		10K	5% 0.50%	1/10W		R912	1-240-981-91	METAL CHIP	1K	5% 5%	1/10W	
R648	1-216-669-11	METAL CHIP	5.6K	0.50%	1/1000		R913	1-240-969-91	METAL CHIP	100	5%	1/10W	
R649	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W		R914	1-240-969-91	METAL CHIP	100	5%	1/10W	
R650	1-215-471-00		120K	1%	1/4W		R915	1-240-989-91	METAL CHIP	4.7K	5%	1/10W	
R654	1-216-344-00		0.39	5%	1W	F	R916	1-240-995-91	METAL CHIP	15K	5%	1/10W	
R655	1-247-807-31		100	5%	1/4W	•	R917	1-240-995-91	METAL CHIP	15K	5%	1/10W	
11300	. = 1, 507 01	5, ii (BOH	.00	0 /0			I	. = 10 000 01			0.70	.,	

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Note:

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding x-ray radiation. Should replacement be required, replace only with the value originally used.



REF.NO.	PART NO.	DESCRIPTION	Ē	REMARK	
R918	1-240-981-91	METAL CHIP	1K	5%	1/10W
R919	1-240-969-91	METAL CHIP	100	5%	1/10W
R920	1-240-981-91	METAL CHIP	1K	5%	1/10W
R921	1-216-295-91	SHORT			
R922	1-240-993-91	METAL CHIP	10K	5%	1/10W
R923	1-216-295-91	SHORT			
R924	1-240-969-91	METAL CHIP	100	5%	1/10W
R925	1-242-776-91	METAL CHIP	470K	5%	1/10W
R926	1-240-969-91	METAL CHIP	100	5%	1/10W
R927	1-216-295-91	SHORT			
R928	1-240-969-91	METAL CHIP	100	5%	1/10W
R929	1-240-985-91	METAL CHIP	2.2K	5%	1/10W
R931	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R932	1-240-995-91	METAL CHIP	15K	5%	1/10W
R933	1-247-831-91	CARBON	1K	5%	1/4W
R934	1-249-429-11	CARBON	10K	5%	1/4W
R935	1-240-969-91	METAL CHIP	100	5%	1/10W
R936	1-240-969-91	METAL CHIP	100	5%	1/10W
R937	1-240-969-91	METAL CHIP	100	5%	1/10W
R938	1-240-969-91	METAL CHIP	100	5%	1/10W
R940	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R943	1-249-413-11	CARBON	470	5%	1/4W
R950	1-240-982-91	METAL CHIP	1.2K	5%	1/10W
R951	1-240-969-91	METAL CHIP	100	5%	1/10W
R953	1-240-993-91	METAL CHIP	10K	5%	1/10W
R954	1-240-993-91	METAL CHIP	10K	5%	1/10W
R957	1-240-965-91	METAL CHIP	47	5%	1/10W
R958	1-240-965-91	METAL CHIP	47	5%	1/10W

VARIABLE RESISTOR

▼ RV501 △	1-241-767-21	RES, ADJ, CERMET	100K
	3-710-578-01	COVER, VOLUME, 6 MOLD	

RELAY

RY500	1-755-137-11	RELAY	
RY601 △	1-755-067-21	RELAY	

SWITCH

S602	Δ	1-771-757-11	SWITCH, PUSH (1 KEY)
S901			SWITCH, TACTILE

SPARK GAP

SG501 1-519-422-11 GAP, SPARK

REF.NO. PART NO. DESCRIPTION REMARK TRANSFORMER

T501	Δ	1-453-311-11	FBT ASSY NX-4404//X4L4
T503		1-433-979-11	TRANSFORMER, FERRITE (DFT)
T504		1-433-978-11	TRANSFORMER, FERRITE
T505		1-431-413-11	TRANSFORMER, FERRITE (HST)
T601	Δ	1-433-847-14	TRANSFORMER, CONVERTER (SRT)

THERMISTOR

TH501	1-807-796-11	THERMISTOR
TH600 △	1-809-827-11	THERMISTOR, NTC
TH601	1-803-540-11	THERMISTOR

VARISTOR

VA601 A 1-801-073-31 VARISTOR TNR14V471K660

CRYSTAL

X901	1-767-641-11	VIBRATOR, CRYSTAL
X902	1-767-933-11	OSCILLATOR, CERAMIC



* A-1372-697-A H MOUNTED PC BOARD

CAPACITOR

C801 1-104-664-11 ELECT 47µF 20% 10V

CONNECTOR

CN801 * 1-564-510-11 PLUG, CONNECTOR 7P

DIODE

D803 8-719-064-11 DIODE SPR-325MVW

TRANSISTOR

Q801	8-729-119-78	TRANSISTOR	2SC2785-HFE
Q802	8-729-119-78	TRANSISTOR	2SC2785-HFE

RESISTOR

R801	1-215-417-00	METAL	680	1%	1/4W
R802	1-215-421-00	METAL	1K	1%	1/4W
R803	1-215-427-00	METAL	1.8K	1%	1/4W
R804	1-215-433-00	METAL	3.3K	1%	1/4W

CPD-E210



Note:

The components identified by shading and mark $\ensuremath{\Delta}$ are critical for safety. Replace only with part number specified.

Note:

R805 1-247-807-31 CARBON 100 5% 1/4W R806 1-247-807-31 CARBON 100 5% 1/4W R807 1-249-411-11 CARBON 330 5% 1/4W R808 1-249-413-11 CARBON 470 5% 1/4W	<u>F.NO.</u>	<u>Part no.</u>	DESCRIPTION		REMARK	, !	REF.NO.	PART NO.	DESCRIPTION	REMA
R807 1-249-411-11 CARBON 330 5% 1/4W R808 1-249-413-11 CARBON 470 5% 1/4W	305	1-247-807-31	CARBON	100	5%	1/4W				
R808 1-249-413-11 CARBON 470 5% 1/4W	306	1-247-807-31	CARBON	100	5%	1/4W				
	307	1-249-411-11	CARBON	330	5%	1/4W				
	308	1-249-413-11	CARBON	470	5%	1/4W				
<u>SWITCH</u>		<u>SWITCH</u>								
S801 1-771-734-11 SWITCH, TACTILE	201	1-771-73/1-11	SWITCH TACT	II F						

NOTES:	

CPD-E210

NOTES:	

Sony Technology Center Product Quality Division Service Promotion Dept.



SERVICE MANUAL

CPD-E210

US Model
Canadian Model
Chassis No. SCC-L31A-A

D99C CHASSIS

CORRECTION-1

SUBJECT: D Board Diode Part Number Listing Correction

Correct the service manual as shown. File this Correction with the service manual.





The components identified by shading and mark ${\underline{\wedge}}$ are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque \triangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Section 7 Electrical Parts List (page 40-41)

Diode D511 through D937 are printed incorrectly in the original manual. Please use the following part numbers when ordering replacement diodes for these components:

ref.no.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	DIODE			D620	8-719-300-76	DIODE RH-1A	
				D621	8-719-911-19	DIODE 1SS119-25	
				D622	8-719-058-38	DIODE FMN-G12S	
				D704	8-719-911-19	DIODE 1SS119-25	
D511	8-719-109-89		2	D901	8-719-988-61	DIODE 1SS355TE-17	
D512	8-719-911-19		_				
D513	8-719-052-90	DIODE D1NL40-TA	2	D902	8-719-047-98	DIODE HZU5.6B2TRF	
				D903	8-719-050-84	DIODE RB441Q-40T-77	
D514	8-719-970-83			D904	8-719-047-98	DIODE HZU5.6B2TRF	
	8-719-018-82		EL-6394	D905	8-719-911-19	DIODE 1SS119-25	
D516	8-719-052-86			D906	8-719-988-61	DIODE 1SS355TE-17	
	8-759-157-40						
D518	8-719-110-17	DIODE RD10ESB2		D907	8-719-988-61	DIODE 1SS355TE-17	
				D908	8-719-988-61	DIODE 1SS355TE-17	
D519	8-719-911-19			D909	8-719-047-98	DIODE HZU5.6B2TRF	
D520	8-719-018-82		- ***	D910	8-719-047-98	DIODE HZU5.6B2TRF	
D521	8-719-018-82		EL-6394	5010	0 7 10 047 00	DIODE HZOO.ODZIIN	
D522	8-719-911-19			D911	8-719-988-61	DIODE 1SS355TE-17	
D523	8-719-911-19	DIODE 1SS119-25		D913	8-719-988-61	DIODE 1SS355TE-17	
				D914	8-719-988-61	DIODE 1SS355TE-17	
D524	8-719-051-85	DIODE HSS83TD		D915	8-719-988-61	DIODE 1SS355TE-17	
D525	8-719-051-85	DIODE HSS83TD		D916	8-719-988-61	DIODE 1SS355TE-17	
D527	8-719-109-85	DIODE RD5.1ESB2)	D910	0-7 19-900-01	DIODE 1000001E-17	
D529	8-719-110-49	DIODE RD18ESB2		D917	8-719-988-61	DIODE 1SS355TE-17	
D601 △	8-719-510-53	DIODE D4SB60L		D918	8-719-047-98	DIODE HZU5.6B2TRF	
D602 △	8-719-911-19	DIODE 1SS119-25		D919	8-719-988-61	DIODE 1SS355TE-17	
				D919	8-719-058-24	DIODE RB501V-40TE-17	
D603	8-719-911-19	DIODE 1SS119-25		D920 D921	8-719-988-61	DIODE 1SS355TE-17	
D604	8-719-911-19	DIODE 1SS119-25		D321	0-7 19-900-01	DIODE 1000001E-17	
D605	8-719-110-31	DIODE RD12ESB2		D924	8-719-988-61	DIODE 1SS355TE-17	
D606 △	8-719-053-19	DIODE µF4007G23		D924 D925	8-719-988-61	DIODE 188355TE-17	
D607	8-719-053-19	DIODE µF4007G23					
		•		D926	8-719-988-61	DIODE 188355TE-17	
D608	8-719-110-49	DIODE RD18ESB2		D927	8-719-988-61	DIODE 1SS355TE-17 DIODE HZU5.6B2TRF	
	8-719-911-19			D928	8-719-047-98	טוטטב חבטס.ססבוגר	
D610	8-719-921-40	DIODE MTZJ-4.7C		D000	0 740 047 00	DIODE HAUE COATRE	
D611	8-719-067-68	DIODE FMC-26UA		D929	8-719-047-98	DIODE HZU5.6B2TRF	
D612	8-719-053-19			D930	8-719-047-98	DIODE HZU5.6B2TRF	
D613	8-719-076-20			D931	8-719-109-89	DIODE RD5.6ESB2	
				D932	8-719-109-89	DIODE RD5.6ESB2	
D614	8-719-032-12	DIODE D1NS6		D933	8-719-109-89	DIODE RD5.6ESB2	
D615	8-719-979-58				0 = 40 0 := 0=	DIODE HELL COST	
D616	8-719-979-58			D934	8-719-047-98	DIODE HZU5.6B2TRF	
D617	8-719-947-06		G23	D935	8-719-109-85	DIODE RD5.1ESB2	
D618	8-719-058-38		020	D936	8-719-109-89	DIODE RD5.6ESB2	
	0-113-000-00	DIODE I WIN-0120		D937	8-719-109-89	DIODE RD5.6ESB2	

SONY CORPORATION

Sony Technology Center Technical Services Service Promotion Department



SERVICE MANUAL

CPD-E210

US Model
Canadian Model
Chassis No. SCC-L31A-A

C1140010 110. 000 2011111

D99C CHASSIS

CORRECTION-1

SUBJECT: D Board Diode Part Number Listing Correction

Correct the service manual as shown. File this Correction with the service manual.





The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

Note:

Les composants identifies per un trame et une marque \triangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Section 7 Electrical Parts List (page 40-41)

Diode D511 through D937 are printed incorrectly in the original manual. Please use the following part numbers when ordering replacement diodes for these components:

REF.NO.	PARTNO.	DESCRIPTION	REMARK	REF.NO.	PARTNO.	DESCRIPTION	REMARK
	DIODE			D620	8-719-300-76	DIODE RH-1A	
				D621	8-719-911-19	DIODE 1SS119-25	
				D622	8-719-058-38	DIODE FMN-G12S	
		2,022.222		D704	8-719-911-19	DIODE 1SS119-25	
D511	8-719-109-89	DIODE RD5.6ESB2		D901	8-719-988-61	DIODE 1SS355TE-17	
D512	8-719-911-19	DIODE 1SS119-25					
D513	8-719-052-90	DIODE D1NL40-TA2		D902	8-719-047-98	DIODE HZU5.6B2TRF	
				D903	8-719-050-84	DIODE RB441Q-40T-77	
D514	8-719-970-83	DIODE HSS82		D904	8-719-047-98	DIODE HZU5.6B2TRF	
	8-719-018-82	DIODE RGP02-20EL-6	5394	D905	8-719-911-19	DIODE 1SS119-25	
D516	8-719-052-86			D906	8-719-988-61	DIODE 1SS355TE-17	
	8-759-157-40	IC UPC574J					
D518	8-719-110-17	DIODE RD10ESB2		D907	8-719-988-61	DIODE 1SS355TE-17	
				D908	8-719-988-61	DIODE 1SS355TE-17	
D519	8-719-911-19	DIODE 1SS119-25		D909	8-719-047-98	DIODE HZU5.6B2TRF	
D520	8-719-018-82	DIODE RGP02-20EL-6		D910	8-719-047-98	DIODE HZU5.6B2TRF	
D521	8-719-018-82	DIODE RGP02-20EL-6	6394	5010	0 7 10 0 17 00	BIODE FIEOGRAPHII	
D522	8-719-911-19	DIODE 1SS119-25		D911	8-719-988-61	DIODE 1SS355TE-17	
D523	8-719-911-19	DIODE 1SS119-25		D913	8-719-988-61	DIODE 1SS355TE-17	
				D914	8-719-988-61	DIODE 1SS355TE-17	
D524	8-719-051-85	DIODE HSS83TD		D915	8-719-988-61	DIODE 188355TE-17	
D525	8-719-051-85	DIODE HSS83TD		D916	8-719-988-61	DIODE 188355TE-17	
D527	8-719-109-85	DIODE RD5.1ESB2		D010	0 7 10 000 01	DIODE 1000031E 17	
D529	8-719-110-49	DIODE RD18ESB2		D917	8-719-988-61	DIODE 1SS355TE-17	
D601 △	8-719-510-53	DIODE D4SB60L		D918	8-719-047-98	DIODE HZU5.6B2TRF	
D602 △	8-719-911-19	DIODE 1SS119-25		D919	8-719-988-61	DIODE 1SS355TE-17	
				D920	8-719-058-24	DIODE RB501V-40TE-17	
D603	8-719-911-19	DIODE 1SS119-25		D921	8-719-988-61	DIODE 1SS355TE-17	
D604	8-719-911-19	DIODE 1SS119-25		D321	0 7 10 000 01	DIODE 1000031E 17	
D605	8-719-110-31	DIODE RD12ESB2		D924	8-719-988-61	DIODE 1SS355TE-17	
D606 △	8-719-053-19	DIODE µF4007G23		D925	8-719-988-61	DIODE 188355TE-17	
D607	8-719-053-19	DIODE µF4007G23		D926	8-719-988-61	DIODE 188355TE-17	
				D927	8-719-988-61	DIODE 188355TE-17	
D608	8-719-110-49	DIODE RD18ESB2		D928	8-719-047-98	DIODE HZU5.6B2TRF	
	8-719-911-19	DIODE 1SS119-25		D320	0 7 10 0 17 00	DIODE NZOS.ODZ IIII	
D610	8-719-921-40	DIODE MTZJ-4.7C		D929	8-719-047-98	DIODE HZU5.6B2TRF	
D611	8-719-067-68	DIODE FMC-26UA		D930	8-719-047-98	DIODE HZU5.6B2TRF	
D612	8-719-053-19	DIODE µF4007G23		D931	8-719-109-89	DIODE RD5.6ESB2	
D613	8-719-076-20	DIODE BT149G-412-0)T359	D932	8-719-109-89	DIODE RD5.6ESB2	
D614	8-719-032-12	DIODE D1NS6		D932	8-719-109-89	DIODE RD5.6ESB2	
D615	8-719-979-58	DIODE EGP10D		ال ال	0-113-103-03	DIODE 1100.0E002	
D616	8-719-979-58	DIODE EGP10D		Dosa	8-719-047-98	DIODE HZU5.6B2TRF	
D617	8-719-947-06	DIODE RGP10JPKG2	3	D934 D935	8-719-047-96	DIODE RD5.1ESB2	
D618	8-719-058-38	DIODE FMN-G12S		l			
D619	8-719-058-38	DIODE FMN-G12S		D937	d-719-109-89	NIONE KD2'0E2R5	
				D936 D937	8-719-109-89 8-719-109-89	DIODE RD5.6ESB2 DIODE RD5.6ESB2	

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